

SEMICONDUCTOR MANUFACTURING INTERNATIONAL CORP  
Form 20-F/A  
February 15, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

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FORM 20 F/A

(Amendment No.1)

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REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR (g) OF THE SECURITIES EXCHANGE  
ACT OF 1934

OR

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF  
1934

OR

SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE  
ACT OF 1934

Commission file number 1 31994

Semiconductor Manufacturing International Corporation

(Exact name of Registrant as specified in its charter)

Not Applicable

(Translation of Registrant's name into English)

Cayman Islands

(Jurisdiction of incorporation or organization)

18 Zhangjiang Road, Pudong New Area, Shanghai, China 201203

(Address of principal executive offices)

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18 Zhangjiang Road, Pudong New Area, Shanghai, China 201203

(Name, Telephone, E-mail and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act.

Title of each class	Name of each exchange on which registered
Ordinary Shares, par value US\$0.0041	The Stock Exchange of Hong Kong Limited*
American Depositary Shares	The New York Stock Exchange, Inc.

1The par value of the ordinary share of the Company was US\$0.0004 each before December 7, 2016 and US\$0.004 each after December 7, 2016.

Securities registered or to be registered pursuant to Section 12(g) of the Act. None

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act. None

Indicate the number of outstanding shares of each of the issuer's classes of capital or ordinary shares as of the close of the period covered by the annual report.

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As of December 31, 2017, there were 4,916,106,889 ordinary shares, par value US\$0.004 per share, outstanding, of which 12,328,021 ordinary shares were held in the form of 61,640,105 American Depositary Shares (“ADSs”). Each ADS represents 5 ordinary shares.

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15 (d) of the Securities Exchange Act of 1934.

Yes No

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files).

Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or an emerging growth company. See definition of “large accelerated filer”, “accelerated filer” and “emerging growth company” in Rule 12b-2 of the Securities Exchange Act of 1934 (Check one):

Large accelerated filer   Accelerated filer   Non-accelerated filer   Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP	International Financial Reporting Standards as issued	Other
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by the International Accounting Standards Board

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Securities Exchange Act of 1934).

Yes No

\*Not for trading, but only in connection with the listing of American Depositary Shares on the New York Stock Exchange, Inc.

#### EXPLANATORY NOTE

This Amendment No. 1 (this “Amendment No. 1”) to the Annual Report on Form 20-F of Semiconductor Manufacturing International Corporation for the fiscal year ended December 31, 2017 filed with the Securities and Exchange Commission on April 27, 2018 (the “Original Form 20-F”) is being filed for purposes of amending Item 15 herein and filing of the Certification of the Co-Chief Executive. Accordingly, Item 19 of the Original Form 20-F has also been amended and restated, as set forth herein, to reflect the filing of such certifications.

This Amendment No. 1 is not intended to update other information disclosed in the Original Form 20-F. Other than as expressly set forth above, this Amendment No. 1 does not, and does not purport to, amend, update or restate the information in any other item of the Original Form 20-F or reflect any events that have occurred since the Original Form 20-F was originally filed.

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## INTRODUCTION

In this annual report, except where the context otherwise requires and for purposes of this annual report only:

- “ADSs” refers to American Depositary Shares;
- “Average selling price of wafers” refers to simplified average selling price which is calculated as total revenue divided by total shipments;
- “BGN” are to Bulgarian Lev;
- “Board” refers to our board of directors;
- “China” or the “PRC” refers to the People’s Republic of China, excluding for the purpose of this annual report, Hong Kong, Macau and Taiwan;
- “Company,” “SMIC,” “Registrant,” “we,” “our” and “us” refers to Semiconductor Manufacturing International Corporation, Cayman Islands company;
- “Directors” refers to the members of the Board;
- “EUR” refers to Euros;
- “Global Offering” refers to the initial public offering of our ADSs and our ordinary shares, which was completed on March 18, 2004;
- “Group” refers to SMIC and all of its subsidiaries;
- “HK\$” refers to Hong Kong dollars;
- “IFRS” refers to International Financial Reporting Standards as issued by the International Accounting Standards Board;
- “JPY” are to Japanese Yen;
- “NYSE” or “New York Stock Exchange” are to the New York Stock Exchange, Inc.;
- “Ordinary Share(s)” are to the ordinary share(s), in the share capital of the Company, of US\$0.0004 each before December 7, 2016 and to the ordinary share(s) of US\$0.004 each upon the Share Consolidation becoming effective on December 7, 2016;
- “Rmb,” “rmb” or “RMB” refers to Renminbi, the legal currency of China;
- “SEC” refers to the U.S. Securities and Exchange Commission;
- “SEHK,” “HKSE” or “Hong Kong Stock Exchange” refers to The Stock Exchange of Hong Kong Limited;
- “Share Consolidation” are to the consolidation of every ten (10) issued and unissued ordinary shares and preferred shares of US\$0.0004 each in the existing share capital of the Company into one ordinary share and preferred share of US\$0.004 each with effect from December 7, 2016.
- “US\$” or “USD” refers to U.S. dollars.
- “U.S. GAAP” refers to generally accepted accounting principles in the United States; and



- The “Glossary of Technical Terms” contained in Annex A of this annual report sets forth the description of certain technical terms and definitions used in this annual report.

All references in this annual report to silicon wafer quantities are to 8 inch wafer equivalents, unless otherwise specified. Conversion of quantities of 12 inch wafers to 8 inch wafer equivalents is achieved by multiplying the number of 12 inch wafers by 2.25. When we refer to the capacity of wafer fabrication facilities, we are referring to the installed capacity based on specifications established by the manufacturers of the equipment used in those facilities. References to key process technology nodes, such as 0.35 micron, 0.25 micron, 0.18 micron, 0.15 micron, 0.13 micron, 90 nanometer, 65 nanometer, 45 nanometer and 28 nanometer include the stated resolution of the process technology, as well as intermediate resolutions down to but not including the next key process technology node of finer resolution. For example, when we state “0.25 micron process technology,” that also includes 0.22 micron, 0.21 micron, 0.20 micron and 0.19 micron technologies and “0.18 micron process technology” also includes 0.17 micron and 0.16 micron technologies.

## FORWARD-LOOKING STATEMENTS

This annual report contains, in addition to historical information, “forward-looking statements” within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on our current assumptions, expectations and projections about future events. We use words like “believe,” “anticipate,” “intend,” “estimate,” “expect,” “project” and similar expressions to identify forward-looking statements, although not all forward-looking statements contain these words. These forward-looking statements are necessarily estimates reflecting the judgment of our senior management and involve significant risks, both known and unknown, uncertainties and other factors that may cause our actual performance, financial condition or results of operations to be materially different from those suggested by the forward-looking statements including, among others:

- risks associated with cyclical and market conditions in the semiconductor industry;
- intense competition;
- timely wafer acceptance by our customers;
- timely introduction of new technologies;
- our ability to ramp new products into volume;
- supply and demand for semiconductor foundry services;
- industry overcapacity;
- shortages in equipment, components and raw materials;
- availability of manufacturing capacity;
- our anticipated capital expenditures;
- our anticipated investments in research and development, anticipated changes to our liability for unrecognized tax benefits; and
- financial stability in end markets.

Except as required by law, we undertake no obligation and do not intend to update any forward- looking statement, whether as a result of new information, future events or otherwise.

Part I

Item 1. Identity of Directors, Senior Management and Advisors

Not applicable.

Item 2. Offer Statistics and Expected Timetable

Not applicable.

Item 3. Key Information

A. Selected Consolidated Financial Data

The selected consolidated financial data presented below as of and for the years ended December 31, 2013, 2014, 2015, 2016 and 2017 have been prepared in accordance with IFRS and are derived from, and should be read in conjunction with our audited consolidated financial statements, including the related notes, included elsewhere in this annual report.

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	For the year ended December 31,				
	2013	2014	2015	2016	2017
	(in US\$ thousands, except for earnings per share, shares, and units)				
Revenue	2,068,964	1,969,966	2,236,415	2,914,180	3,101,175
Cost of sales	(1,630,528)	(1,486,514)	(1,553,795)	(2,064,499)	(2,360,431)
Gross profit	438,436	483,452	682,620	849,681	740,744
Research and development expenses, net	(145,314)	(189,733)	(237,157)	(318,247)	(427,111)
Sales and marketing expenses	(35,738)	(38,252)	(41,876)	(35,034)	(35,796)
General and administration expenses	(138,167)	(139,428)	(213,177)	(157,371)	(197,899)
Other operating income, net	67,870	14,206	31,594	177	44,957
Profit from operations	187,087	130,245	222,004	339,206	124,895
Interest income	5,888	14,230	5,199	11,243	27,090
Finance costs	(34,392)	(20,715)	(12,218)	(23,037)	(18,021)
Foreign exchange gains or losses	13,726	(5,993)	(26,349)	(1,640)	(12,694)
Other gains or losses, net	4,010	18,210	55,611	(2,113)	16,499
Share of profit (loss) of investment accounted for using equity method	2,278	2,073	(13,383)	(13,777)	(9,500)
Profit before tax	178,597	138,050	230,864	309,882	128,269
Income tax (expense) benefit	(4,130)	(11,789)	(8,541)	6,552	(1,846)
Profit for the year	174,467	126,261	222,323	316,434	126,423
Other comprehensive income (loss)					
Item that may be reclassified subsequently to profit or loss					
Exchange differences on translating	731	(324)	(8,185)	(19,031)	23,213

foreign operations										
Change in value of available-for-sale financial assets	—	—	452	807	(2,381)					
Cash flow hedges	—	—	—	(34,627)	35,143					
Share of other comprehensive income of joint ventures accounted for using equity method	—	—	—	—	17,646					
Others	—	—	130	1	(131)					
Items that will not be reclassified to profit or loss										
Actuarial gains or losses on defined benefit plans	—	—	—	1,520	(436)					
Total comprehensive income for the year	175,198	125,937	214,720	265,104	199,477					
Profit (loss) for the year attributable to:										
Owners of the Company	173,177	152,969	253,411	376,630	179,679					
Non-controlling interests	1,290	(26,708)	(31,088)	(60,196)	(53,256)					
	174,467	126,261	222,323	316,434	126,423					
Total comprehensive income (loss) for the year attributable to:										
Owners of the Company	173,908	152,645	245,803	326,191	251,135					
Non-controlling interests	1,290	(26,708)	(31,083)	(61,087)	(51,658)					
	175,198	125,937	214,720	265,104	199,477					
Earnings per share*										
Basic	\$ 0.05	\$ 0.05	\$ 0.07	\$ 0.09	\$ 0.04					
Diluted	\$ 0.05	\$ 0.04	\$ 0.06	\$ 0.08	\$ 0.04					
Shares issued and outstanding*	3,211,230,710	3,585,609,617	4,207,374,896	4,252,922,259	4,916,106,889					
Financial Ratio										
Gross margin	21.2	% 24.5	% 30.5	% 29.2	% 23.9					%

Net margin	8.4	%	6.4	%	9.9	%	10.9	%	4.1	%
Operating Data										
Wafers shipped										
(in unit)	2,574,119		2,559,245		3,015,966		3,957,685		4,310,779	

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\*The basic and diluted earnings per share for the prior years have been adjusted to reflect the impact of the share consolidation, on the basis that every ten ordinary shares and preferred shares of US\$0.0004 each consolidated into one ordinary share and preferred share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016 (“Share Consolidation”).

	As of December 31,				
	2013	2014	2015	2016	2017
	(in US\$ thousands)				
Statements of Financial Position Data:					
Property, plant and equipment	2,528,834	2,995,086	3,903,818	5,687,357	6,523,403
Intangible assets	215,265	207,822	224,279	248,581	219,944
Investments in associates	29,200	57,631	181,331	240,136	758,241
Total non-current assets	2,960,151	3,471,120	4,525,297	6,431,525	7,749,467
Inventories	286,251	316,041	387,326	464,216	622,679
Trade and other receivables	379,361	456,388	499,846	645,822	616,308
Other financial assets	240,311	644,071	282,880	31,543	683,812
Restricted cash - current	147,625	238,051	302,416	337,699	336,043
Cash and cash equivalents	462,483	603,036	1,005,201	2,126,011	1,838,300
Total current assets	1,563,241	2,298,259	2,590,050	3,683,753	4,168,984
Total assets	4,523,392	5,769,379	7,115,347	10,115,278	11,918,451
Total non-current liabilities	991,673	1,311,416	1,157,901	2,731,151	3,290,337
Total current liabilities	938,537	1,150,241	1,767,191	1,980,900	1,906,779
Total liabilities	1,930,210	2,461,657	2,925,092	4,712,051	5,197,116
Non-controlling interest	109,410	359,307	460,399	1,252,553	1,488,302
Total equity	2,593,182	3,307,722	4,190,255	5,403,227	6,721,335

#### B. Capitalization and Indebtedness

Not Applicable

#### C. Reasons for the Offer and Use of Proceeds

Not Applicable

#### D. Risk Factors

##### Risk Factors Related to Our Financial Condition and Business

We may not be able to maintain or increase profitability, primarily due to the possibility of increasing fixed costs and market competition reflected in price erosion in the average selling prices of our products.

Our profit totaled US\$126.4 million in 2017 and US\$316.4 million in 2016. After the share premium reduction to eliminate the accumulated losses of US\$910.8 million approved on June 23, 2017, we have net retained earnings of US\$187.0 million attributable to owners of the Company as of the end of 2017. We may not be able to maintain or increase profitability on an annual or quarterly basis, primarily because our business is characterized by high fixed

costs relating to advanced technology equipment purchases, which result in correspondingly high levels of depreciation expenses. We will continue to incur capital expenditures and depreciation expenses as we equip and ramp-up additional fabs and expand our capacity at our existing fabs. This may result in an increase of our fixed costs and possibly reduce our chances of maintaining or increasing profitability.

In addition, we are competing in the same technology environment as a number of other foundries and our competitors who operate these foundries often use price as a means of securing business, resulting in

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erosion of the average selling price of our product portfolio, which adversely affects our ability to maintain or increase profitability.

The cyclical nature of the semiconductor industry and periodic overcapacity make our business and operating results particularly vulnerable to economic downturns, such as a global economic crisis.

The semiconductor industry has historically been highly cyclical and, at various times, has experienced significant downturns characterized by fluctuations in end-user demand, reduced demand for integrated circuits, rapid erosion of average selling prices and production overcapacity. Companies in the semiconductor industry have expanded aggressively during periods of increased demand in order to have the capacity needed to meet such increased demand or expected demand in the future. If actual demand is not sustained, does not increase or declines, or if companies in the industry expand too aggressively in light of the actual increase in demand, the industry will generally experience a period in which industry-wide capacity exceeds demand.

During periods when industry-wide capacity exceeds demand, our operations are subject to more intense competition, and our results of operations are likely to suffer because of the resulting pricing pressure and capacity underutilization. Severe pricing pressure could result in the overall foundry industry becoming less profitable, at least for the duration of the downturn, and could prevent us from maintaining or increasing profitability. We expect that industry cyclicality will continue.

In addition, an erosion of global consumer confidence amidst concerns over declining asset values, inflation, energy costs, geopolitical issues, the availability and cost of credit, rising unemployment, and the stability or solvency of financial institutions, financial markets, businesses and sovereign nations could have an adverse effect on our results of operations.

Adverse economic conditions could cause our expenses to vary materially from our expectations. The failure of financial institutions could negatively impact our treasury operations, as the financial condition of such parties may deteriorate rapidly and without notice in times of market volatility and disruption. Other income and expense could vary materially from expectations depending on changes in interest rates, borrowing costs and currency exchange rates. Economic downturns may also lead to restructuring actions and associated expenses.

If we cannot take appropriate or effective actions in a timely manner during any economic downturns, such as reducing our costs to sufficiently offset declines in demand for our services, our business and operating results may be adversely affected. A prolonged period of economic decline could have a material adverse effect on our results of operations. Economic uncertainty also makes it difficult for us to make accurate forecasts of revenue, gross margin and expenses.

Furthermore, a slowdown in the growth in demand for, or the continued reduction in selling prices of, devices that use semiconductors may decrease the demand for our products and reduce our profit margins.

The loan agreements entered into by members of the Group contain certain restrictions that limit our flexibility in operating our business.

The terms of certain existing loan agreements entered into by members of the Group contain, and certain future indebtedness of the Group would likely contain, a number of restrictive covenants that impose significant operating and financial restrictions on the Group, including restrictions on the ability of members of the Group to, among other things:

- pay dividends;
- repay outstanding shareholder loans and provide loans to subsidiaries; and

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- consolidate, merge, sell or otherwise dispose of any of our assets under certain conditions.

In addition, certain loan agreements of the Group contain, and any future loan agreements may contain, cross-default clauses whereby a default under one of the loan agreements may constitute an event of default under the other loan agreements. We may also be required to satisfy and maintain specified financial ratios and other financial covenants (see “Item 5.B — Operating and Financial Review and Prospects — Liquidity and Capital Resources — Bank borrowing” for details). The Group’s ability to meet such financial ratios and other covenants can be affected by various events, and we cannot assure you that we will meet these ratios and comply with such covenants in the future. A breach of any of these covenants would result in a default under the existing loan agreements of the Group, which may allow the lenders to declare all amounts outstanding thereunder to be due and payable after the lapse of the relevant grace period and terminate all commitments to extend further credit, any of which could result in an event of default under the terms and conditions of the loan agreement.

The impact of deteriorating economic conditions on our customers and suppliers could adversely affect our business.

Customer financial difficulties have resulted, and could result in the future, in increases in bad debt write-offs and additions to reserves in our receivables portfolio. In particular, our exposure to certain financially troubled customers could have an adverse effect on our results of operations. In addition, we depend on suppliers of raw materials, such as silicon wafers, gases and chemicals, and spare equipment parts, in order to maintain our production processes. Our business may be disrupted if, due to the insolvency of key suppliers, we are unable to obtain the raw materials required to sustain our operations.

Demand instability for foundry services may result in a lower rate of return on investments than previously anticipated and our business and operating results may be adversely affected.

The demand for foundry services by integrated device manufacturers (“IDM(s)”), fabless semiconductor companies and systems companies has been increasing. We have made significant investments in anticipation of the continuation of this trend and, as such, any reversal of this trend will likely result in a lower rate of return on our investments. During an industry slowdown, IDMs may allocate a smaller portion of their fabricating needs to foundry service providers and perform a greater amount of foundry services for system companies and fabless semiconductor companies in order to maintain their equipment’s utilization rates. As a result, our business and operating results could be adversely affected.

Our results of operations may fluctuate from year to year, making it difficult to predict our future performance which may be below our expectations or those of the public market analysts and investors in these periods.

Our sales, expenses, and results of operations may fluctuate significantly from year to year due to a number of factors, many of which are outside our control. Our business and operations are subject to a number of factors, including:

- our customers’ sales outlook, purchasing patterns and inventory adjustments based on general economic conditions or other factors;
- the loss of one or more key customers or the significant reduction or postponement of orders from such customers;
- timing of new technology development and the qualification of this technology by our customers;
- timing of our expansion and development of our facilities;

- our ability to obtain equipment and raw materials; and
- our ability to obtain financing in a timely manner.

Due to the factors noted above and other risks discussed in this section, year-to-year comparisons cannot be relied upon to predict our future performance. Unfavorable changes in any of the above factors may adversely affect our business and operating results. In addition, our operating results may be below the expectations of public market analysts and investors in some future periods.

If we are unable to maintain high capacity utilization, optimize the technology and product mix of our services or improve our yields, our margins may substantially decline, thereby adversely affecting our operating results.

Our ability to maintain or increase profitability depends, in part, on our ability to:

- maintain high capacity utilization, which is the actual number of wafers we produce in relation to our capacity;
- optimize our technology and product mix, which is the relative number of wafers fabricated utilizing higher margin technologies as compared to commodity and lower margin technologies; and
- continuously maintain and improve our yield, which is the percentage of usable fabricated devices on a wafer.

Our capacity utilization affects our operating results because a large percentage of our costs are fixed. Our technology and product mix has a direct impact upon our average selling prices and overall margins. Our yields directly affect our ability to attract and retain customers, as well as the price of our products. If we are unable to maintain high capacity utilization, optimize the technology and product mix of our wafer production and continuously improve our yields, our margins may substantially decline, thereby adversely affecting our operating results.

Our continuing expansion could present significant challenges to our management and administrative systems and resources, and as a result, we could experience difficulties managing our growth or maintaining high capacity utilization which could adversely affect our business and operating results.

Over the next several years, we plan to increase our production capacity through expansion of existing and new production sites. We have added and expect to continue to add capital equipment and increase our headcount with future increases in production capacity. We cannot assure you that we will fully realize the expected returns on these investments for a variety of reasons. If we fail to develop and maintain management and administrative systems and resources sufficient to keep pace with our planned growth or if we fail to increase our customer base or have sufficient demand for our products, we may experience difficulties managing our growth or maintaining high capacity utilization and our business and operating results could be adversely affected.

We may not be able to successfully execute future acquisitions or investments or manage or effectively integrate any acquired personnel, operations and technologies.

From time to time, we seek to acquire or invest in businesses that are complementary to ours. For example, in July 2016, we completed the acquisition of 70% ownership interest of LFoundry S.r.l, an integrated circuit wafer foundry headquartered in Italy, and has formally entered into the global automotive electronics market. However, acquisition or investment in businesses may require a significant commitment of management time, capital investment and other management resources. We cannot assure you that we will be successful in

identifying and negotiating acquisitions or investments on terms favorable to us. To integrate acquired businesses, we must implement our technology systems in the acquired operations and integrate and manage the personnel of the acquired operations. We also must effectively integrate the different cultures of acquired business organizations into our own in a way that aligns various interests, and may need to enter new markets, such as the automotive electronics market, in which we have no or limited experience and where competitors in such markets have stronger market positions. Failures or difficulties in integrating the operations of the businesses that we acquire, including their personnel, technology, financial systems, distribution and general business operations and procedures, and supply and other relationships, may affect our ability to increase our revenues and may result in us incurring asset impairment or restructuring charges. Furthermore, acquisitions and investments are often speculative in nature and the actual benefits we derive from them could be lower or take longer to materialize than we expect. If we are unable to execute, manage or integrate our acquisitions and investments effectively, our growth, operating results and financial condition may be materially and adversely affected.

If we lose one or more of our key personnel without obtaining adequate replacements in a timely manner or if we are unable to retain and recruit skilled personnel, our operations could become disrupted and the growth of our business could be delayed or restricted.

Our success depends on the continued service of our key management team members, and in particular, Dr. Zhou Zixue, Chairman of our Board and Executive Director, Dr. Zhao HaiJun, Co-Chief Executive Officer and Executive Director as well as Dr. Liang Mong Song, Co-Chief Executive Officer and Executive Director. We do not carry full key person insurance. If we lose the services of any of our key executive officers, it could be very difficult to find, relocate and integrate adequate replacement personnel into our operations. As a result, our operations and the growth of our business could be seriously harmed.

We will require an increased number of experienced executives, engineers and other skilled employees in the future to implement our growth plans. In addition, we expect demand for skilled and experienced personnel in China to increase in the future as new wafer fabrication facilities and other similar high technology businesses are established. There is intense competition for the services of these personnel in the semiconductor industry. If we are unable to retain our existing personnel or attract, assimilate and retain new experienced personnel in the future, our operations could become disrupted and the growth of our business could be delayed or restricted.

Our customers generally do not place purchase orders far in advance, which makes it difficult for us to predict our future sales, adjust our production costs and efficiently allocate our capacity on a timely basis and could therefore have an adverse effect on our business and operating results.

Our customers generally do not place purchase orders far in advance of the required shipping dates. In addition, due to the cyclical nature of the semiconductor industry, our customers' purchase orders have varied significantly from period to period. As a result, we do not typically operate with any significant backlog, which makes it difficult for us to forecast our sales in future periods. Moreover, since our cost of sales and operating expenses have high fixed cost components, including depreciation and employee costs, we may be unable to adjust our cost structure in a timely manner to compensate for shortfalls in sales. Our current and anticipated customers may not place orders with us in accordance with our expectations. As a result, it may be difficult to plan our capacity, which requires significant lead time to ramp-up and cannot be altered easily. If our capacity does not match our customers' demand, we will either be burdened with expensive and unutilized overcapacity or unable to support our customers' requirements, both of which could have an adverse effect on our business and results of operations.



Our sales cycles can be long, which could adversely affect our short-term operating results and cause our long-term income stream to be unpredictable.

Our sales cycles, which is measured as the time between our first contact with a particular customer and the first shipment of product orders to such customer, vary substantially and can last as long as one year or more, particularly for new technologies. Sales cycles to IDM customers typically are relatively longer since they usually require our engineers to become familiar with the customer's proprietary technology before production can commence. In addition, even after we make the initial product shipments, it may take the customer several more months to reach full production of that product using our foundry services. As a result of these long sales cycles, we may be required to invest substantial time and incur significant expenses in advance of the receipt of any product order and related revenue. Orders ultimately received may not be in accordance with our expectations and cause our long-term income stream to be unpredictable.

If we do not consistently anticipate trends in technology development, we will not be able to maintain or increase our business and operating margins.

The semiconductor industry is developing rapidly and the related technologies are constantly evolving. We must be able to anticipate the trends in technology development and rapidly develop and implement new and innovative technologies that our customers require to produce sufficiently advanced products at competitive prices and within the time window of market opportunities. To do this, we must make long-term investments, develop or obtain appropriate intellectual property and commit significant resources based on forecasts. If there is large variation between our forecasts and the actual outcome, our long-term investments will not yield satisfactory results and our business and operations will be adversely affected.

Further, as the life cycle for a process technology matures, the average selling price falls. Accordingly, unless we continually upgrade our capability to manufacture new products that our customers design, our customers may use the services of our competitors instead of ours. This can result in the average selling prices of our wafers falling, which could adversely affect our business and operating margins.

Our sales are dependent upon a small number of customers and any decrease in sales to any of them could adversely affect our results of operations.

We have been dependent on a small number of customers for a substantial portion of our business. For the years ended December 31, 2016 and 2017, our five largest customers accounted for 54.6% and 51.4% of our total sales, respectively. We expect that we will continue to be dependent upon a relatively limited number of customers for a significant portion of our sales. Sales generated from these customers, individually or in the aggregate, may not reach our expectations or historical levels in any future period. Our sales could be significantly reduced if any of these customers cancels or reduces its orders, significantly changes its product delivery schedule, or demands lower prices, which could have an adverse effect on our results of operations.

Since our operating cash flows may not be sufficient to cover our planned capital expenditures, we will require additional external financing, which may not be available on acceptable terms, or at all. Any failure to raise adequate funds in a timely manner could adversely affect our business and operating results.

In 2017, our capital expenditures totaled approximately US\$2.5 billion and we currently expect our capital expenditures for foundry operations in 2018 to total approximately US\$1.9 billion, subject to adjustment based on market conditions. We also have budgeted approximately US\$47.7 million as the 2018 capital expenditures for non-foundry operations mainly for the construction of living quarters for employees as part of our employee retention program. In addition, our actual expenditures may exceed our planned expenditures for a variety of reasons, including changes in our business plan, our process technology, market conditions, equipment prices, customer requirements or interest rates. Future acquisitions, mergers, strategic investments, or other developments also may require additional financing. The amount of capital required to meet our growth and development targets is difficult to predict in the highly cyclical and rapidly changing semiconductor industry.

Our operating cash flows may not be sufficient to meet our capital expenditures requirements. If our operating cash flows are insufficient, we plan to fund the expected shortfall through bank loans. If necessary, we will also explore other forms of external financing, as our issuance of ordinary shares and perpetual subordinated convertible securities in 2017. Our ability to obtain external financing is subject to a variety of uncertainties, including:

- our future financial condition, results of operations and cash flows;
- general market conditions for financing activities of semiconductor companies;
- our future stock price; and
- our future credit rating.

External financing may not be available in a timely manner, on acceptable terms, or at all. Since our capacity expansion is a key component of our overall business strategy, any failure to raise adequate funds could adversely affect our business and operating results.



Expansion of our production sites is subject to certain risks that could result in delays or cost overruns, which could require us to expend additional capital and adversely affect our business and operating results.

We spent approximately US\$1,572.7 million, US\$2,694.7 million and US\$2,487.9 million to construct, equip and ramp up our fabs in 2015, 2016 and 2017, respectively. We plan to increase our production capacity through expansion of existing production sites, such as Semiconductor Manufacturing International (Shanghai) Corporation (“SMIS” or “SMIC Shanghai”), Semiconductor Manufacturing International (Beijing) Corporation (“SMIC Beijing”), Semiconductor Manufacturing International (Tianjin) Corporation (“SMIC Tianjin”), Semiconductor Manufacturing International (Shenzhen) Corporation, (“SMIC Shenzhen” or “SMIZ”), all of which are our wholly-owned subsidiaries, as well as Semiconductor Manufacturing North China (Beijing) Corporation (“SMNC”), our majority-owned subsidiary in Beijing and SJ Semiconductor (Jiangyin) Corporation (“SJ Jiangyin”), our majority-owned bumping facility in Jiangyin. There are a number of events that could delay these expansion projects or increase the costs of building and equipping these or future projects in accordance with our plans. Such potential events include, but are not limited to:

- shortages and late delivery of building materials and facility equipment;
- delays in the delivery, installation, commissioning and qualification of our manufacturing equipment;
- delays in securing financing for the expansion projects;
- disagreements with partners involved in the expansion projects;
- seasonal factors, such as extended periods of adverse weather that limit construction;
- labor disputes;
- design or construction changes with respect to building spaces or equipment layout;
- delays in securing necessary government approvals or land use rights; and
- changes in technology, capacity, or other changes in our plans for new fabs necessitated by changes in market conditions.

As a result, our projections relating to capacity, process technology capabilities, or technology developments may significantly differ from actual capacity, process technology capabilities, or technology developments.

Delays in the construction and equipping or expansion of any of our fabs could result in the loss or delayed receipt of earnings, an increase in financing costs, or the failure to meet profit and earnings projections, any of which could adversely affect our business and operating results.

If we cannot compete successfully in our industry, particularly in China, our results of operations and financial condition will be adversely affected.

The worldwide semiconductor foundry industry is highly competitive. We compete with other foundries, such as Taiwan Semiconductor Manufacturing Company Ltd. (“TSMC”), United Microelectronics Corporation (“UMC”), and Global Foundries, as well as the foundry services offered by some IDMs, such as Fujitsu Limited and Samsung Electronics Co. Ltd. We also compete with smaller semiconductor foundries in China, Korea, Malaysia and other countries. While different players in the wafer foundry market may compete on factors such as technical competence, production speed and cycle time, time-to-market, research and development quality, available capacity, yields, customer service and price, we seek to compete on the basis of process technology capabilities, performance, quality, service and price. The level of competition differs according to the process technology involved. Some of our competitors have greater access to capital and substantially higher capacity, longer or more established relationships with their customers, superior research and development capability, and greater marketing and other resources than we do. As a result, these companies may be able to compete more aggressively over a longer period of time than we can.

Some of our competitors have established operations in mainland China in order to compete for the growing domestic market in China. TSMC has its own fab in Shanghai and is currently building a wholly-owned 12 inch wafer manufacturing facility and a design service center in Nanjing. UMC has its majority-owned 8 inch fab in Suzhou and has a 12 inch joint venture fab in Xiamen. In these cases, we understand that the ability of these fabs to manufacture wafers using certain more advanced technologies is subject to restrictions by the respective home jurisdiction of TSMC and UMC; however, such restrictions could be reduced or lifted at any time, which may lead to increased competition in China with such competitors and adversely affect our business and operating results.

In addition, various other factors such as import and export controls, foreign exchange controls, exchange rate fluctuations, interest rate fluctuations and political developments affect our ability to compete successfully. If we cannot compete successfully in our industry or are unable to maintain our position as a leading foundry in China, our results of operations and financial condition will be adversely affected.

We may be unable to obtain in a timely manner and at a reasonable cost the equipment necessary for our business and therefore may be unable to achieve our expansion plans or meet our customers’ orders, which could negatively impact our competitiveness, financial condition and results of operations.

The semiconductor industry is capital-intensive and requires investment in advanced equipment that is available from a limited number of manufacturers. The market for equipment used in semiconductor foundries is characterized, from time to time, by significant demand, limited supply and long delivery cycles. Our business plan depends upon our ability to obtain our required equipment in a timely manner and at acceptable prices. Therefore, we invest in advanced equipment based on advance forecasts of demand. During times of significant demand for the types of equipment we use, lead time for delivery can be one year. Shortages of equipment could result in an increase in equipment prices and longer delivery time. If we are unable to obtain equipment in a timely manner and at a reasonable cost, we may be unable to achieve our expansion plans or meet our customers’ orders, which could negatively impact our competitiveness, financial condition, and results of operations.

We expect to have an ongoing need to obtain licenses for the proprietary technology of others, which subjects us to the payment of license fees and potential delays in the development and marketing of our products.

While we continue to develop and pursue patent protection for our own technologies, we expect to continue to rely on third party license arrangements to enable us to manufacture certain advanced wafers. As of December 31, 2017, we had been granted 7,713 patents worldwide, of which, 70 were in Taiwan, 954 were in the U.S., 6,665 were in China and 24 were in other jurisdictions. In comparison, we believe our competitors and other industry participants have been issued many more patents concerning wafer fabrication in multiple jurisdictions. Our limited patent portfolio may in the future adversely affect our ability to obtain licenses to the proprietary technology of others on favorable license terms due to our inability to offer cross-licensing arrangements. The fees associated with such licenses could adversely affect our financial condition and operating results. They might also render our services less competitive. If for any reason we are unable to obtain license necessary for using technology on acceptable terms, it may become necessary for us to develop alternative technology internally, which could be costly and delay the marketing and delivery of key products and therefore have an adverse effect on our business and operating results. In addition, we may be unable to independently develop the technology required by our customers on a timely basis or at all, in which case our customers may purchase wafers from our competitors. We expect there is no group of important patents set to expire in 2018 or 2019.

We may be subject to claims of intellectual property rights infringement owing to the nature of our industry partly due to our limited patent portfolio and limitations of the indemnification provisions in our technology license agreements. These claims could adversely affect our business and operating results.

There is frequent intellectual property litigation in our industry, involving patents, copyrights, trade secrets, mask works and other intellectual property subject matters. In some cases, a company attempts to avoid or settle litigation on favorable terms if it possesses patents that can be asserted against the plaintiff. The limited size of our current patent portfolio is unlikely to place us in such a favorable bargaining position. Moreover, some of our technology license agreements with our major technology partners do not provide for us to be indemnified in the event that the processes we obtain license pursuant to such agreements infringe third party intellectual property rights. We could be sued for infringing one or more patents as to which we will be unable to obtain a license and unable to design around. As a result, we would be prohibited from manufacturing or selling the products which are dependent upon such technology, which could have a material adverse effect on our business. We may litigate the issues of whether these patents are valid or infringed, but in the event of loss of such lawsuit, we may be required to pay substantial monetary damages and be enjoined from further production or sale of such products. Please refer to our historical litigation with TSMC on page 18 for details.

If we are unable to maintain relationships with certain technology partners or are unable to enter into new technology alliances on a timely basis, we may not be able to continue providing our customers with leading edge process technology, which could adversely affect our competitive position and operating results.

Enhancing our process technologies is critical to our ability to provide high quality services for our customers. One way to enhance our process technologies is the formation of technology alliances under which we expect to leverage our technology partners to advance our portfolio of process technologies to minimize development risk and shorten development cycle. We currently have joint technology development arrangements and technology sharing arrangements with several companies and research institutes. If we are unable to continue our technology alliances with these entities or maintain mutually beneficial terms on our other joint development arrangements, research and development alliances and other similar agreements or enter into new technology alliances with other leading developers of semiconductor technology, we may not be able to continue providing our customers with leading edge

process technology on time, which could adversely affect our competitive position and operating results.

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Global or regional economic, political and social conditions could adversely affect our business and operating results.

External factors such as potential terrorist attacks, acts of war, financial crises, the global economic crisis, or political, geopolitical and social turmoil in those parts of the world that serve as markets for our products could significantly adversely affect our business and operating results in ways that cannot presently be predicted. These uncertainties could make it difficult for our customers and us to accurately plan future business activities. For example, we purchase raw materials and other services from numerous suppliers, and, even if our facilities were not directly affected by such events, we could be affected by interruptions at such suppliers. Such suppliers may be less likely to be able to quickly recover from such events and may be subject to additional risks such as financial problems that limit their ability to conduct their operations. We cannot assure you that we will have insurance to adequately compensate us for any of these events. More generally, these geopolitical, social and economic conditions could result in increased volatility in worldwide financial markets and economies that could adversely impact our sales. We are not insured for losses and interruptions caused by terrorist acts or acts of war. Therefore, any of these events or circumstances could adversely affect our business and operating results.

The recurrence of an outbreak of the H7N9 and H5N1 strain of flu (Avian Flu), the H1N1 strain of flu (Swine Flu), Severe Acute Respiratory Syndrome (SARS), or an outbreak of any other similar epidemic could, directly or indirectly, adversely affect our operating results.

Concerns about the spread of the H7N9 strain of flu (Avian Flu) in China and outbreaks of the H1N1 virus (Swine Flu) in North America, Europe and Asia in the past have caused governments to take measures to prevent spread of the virus. The spread of epidemics could negatively affect the economy. For example, past occurrences of epidemics such as SARS have caused different degrees of damage to the national and local economies in China. If any of our employees are identified as a possible source of spreading Swine Flu, Avian Flu or any other similar epidemic, we may be required to quarantine employees that are suspected of being infected, as well as others that have come into contact with those employees. We may also be required to disinfect our affected premises, which could cause a temporary suspension of our manufacturing capacity, thus adversely affecting our operations. A recurrence of an outbreak of Swine Flu, SARS, Avian Flu or other similar epidemic could restrict the level of economic activities generally and/or slow down or disrupt our business activities which could in turn adversely affect our results of operations.

Exchange rate fluctuations could increase our costs, which could adversely affect our operating results and the value of our ADSs.

Our financial statements are prepared in U.S. dollars. The majority of our sales are denominated in U.S. dollars and Renminbi. Our manufacturing costs and capital expenditures are generally denominated in U.S. dollars, Japanese Yen, Euros and Renminbi. Although we enter into foreign currency forward exchange contracts and cross currency swap contracts to partially hedge our exposure to exchange rate fluctuations, we are still affected by fluctuations in exchange rates between the U.S. dollar and each of the Japanese Yen, the Euros and the Renminbi. Any significant fluctuations among these currencies may lead to an increase in our costs, which could adversely affect our operating results. See “Item 3.D — Key information — Risk Factors — Risks Related to Conducting Operations in China — Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our business and operating results” for a discussion of risks relating to the Renminbi.

Fluctuations in the exchange rate of the Hong Kong dollar against the U.S. dollar will affect the U.S. dollar value of the ADSs, since our ordinary shares are listed and traded on the Hong Kong Stock Exchange and the price of such shares are denominated in Hong Kong dollars. While the Hong Kong government has continued to pursue a pegged exchange rate policy, with the Hong Kong dollar trading in the range of HK\$7.7542 to HK\$7.8267 per US\$1.00 for 2017 we cannot assure you that this policy will be maintained. Exchange rate fluctuations also will affect the amount of U.S. dollars received upon the payment of any cash dividends or other distributions paid in Hong Kong dollars and the Hong Kong dollar proceeds received from any sales of ordinary shares. Therefore, such fluctuations could also adversely affect the value of our ADSs.

If we fail to maintain an effective system of internal control, we may not be able to achieve the business objectives in operations, financial reporting integrity, and compliance with applicable laws and regulations.

We are required to comply with various PRC, Hong Kong and U.S. laws and regulations. For example, we are subject to reporting obligations under the U.S. securities laws. The SEC, as required by Section 404 of the Sarbanes-Oxley Act of 2002, or the Sarbanes-Oxley Act, adopted rules requiring public companies to include a management report on such company's internal controls over financial reporting in its annual report, which contains management's assessment of the effectiveness of our internal controls over financial reporting. Effective internal controls are necessary for us to provide reasonable assurance with respect to our financial reports, compliance with applicable laws and regulations, and to effectively achieve our operation objectives. In addition, because of the inherent limitations of internal control over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may not be prevented or detected on a timely basis. As a result, if we fail to maintain effective internal controls, including any failure to implement required new or improved controls, or should we be unable to prevent or detect material misstatements due to error or fraud on a timely basis, our operating results could be harmed, and investors could lose confidence in the reliability of our financial statements. As a result, our business and the trading price of our securities could be negatively impacted.

Internet security system breaches, cyber-attacks and other disruptions could compromise our information and systems, which would cause our business and reputation to suffer.

We store sensitive data, including intellectual property and proprietary business information belonging to our company, our customers, our suppliers and our business partners. The secure maintenance of this information is critical. Despite our security measures, our information technology and infrastructure may be vulnerable to breaches by hackers, employee error, malfeasance or other disruptions such as natural disasters, power losses or telecommunication failures. Any such breach could compromise our networks and the information stored, possibly resulting in legal and regulatory actions, disruption of operations and customer services, and otherwise harming our business and future operations.

Our tangible and intangible assets may be written down when impaired, any impairment charges may adversely affect our net income.

Under IFRS, we are required to assess our assets to determine whether an asset may be impaired. An impairment loss exists and is recorded in our books when the carrying value of an asset exceeds its recoverable value. With the exception of goodwill and certain intangible assets for which an annual impairment test is required, we are required to conduct impairment tests where there is an indication of impairment of an asset.

At the end of each reporting period, we are required to assess whether there is any indication that an impairment loss recognized in prior periods for an asset other than goodwill may no longer exist or may have decreased. If any such

indication exists, the impairment loss will be reversed up to the newly estimated recoverable amount, not to exceed the original value recorded. Goodwill impairment will not be reversed. As of December 31, 2017, the carrying amount of property, plant and equipment was US\$6,523.4 million and the carrying amount of intangible assets was US\$219.9 million.

Currently we are not able to estimate the amount of impairment loss or when the loss will occur for future years. Any potential changes of the business assumptions, such as forecasted sales, selling prices and utilization, may have a material adverse effect on our net income.

See “Item 5.A — Operating and Financial Review and Prospects — Operating Results — Critical Accounting Policies” for a discussion of how we assess if an impairment charge is required and, if so, how the amount is determined.

We have twice settled pending litigation with TSMC at a substantial cost to us, and, if we materially breach our 2009 settlement agreement with TSMC (or certain related documents), we could be required to pay substantial liquidated damages in addition to the money damages or other remedies TSMC may be entitled to in connection with such material breach.

TSMC has brought legal claims against us and our personnel on several occasions since 2002. On January 31, 2005, we entered into a settlement agreement with TSMC and agreed to pay them \$175 million in installments over a period of six years (“the 2005 Settlement Agreement”).

On August 25, 2006, TSMC filed a lawsuit against us and certain of our subsidiaries in the Superior Court of the State of California for alleged breach of the 2005 Settlement Agreement, alleged breach of promissory notes and alleged trade secret misappropriation by us. We filed counterclaims against TSMC in the same court in September 2006 and also filed suit against TSMC in Beijing in November 2006. We settled these 2006 lawsuits with TSMC (“the Settled Actions”) on November 9, 2009 with a settlement agreement (“the 2009 Settlement Agreement”) which replaced the 2005 Settlement Agreement.

Under the terms of the 2009 Settlement Agreement, our obligation to make the remaining payments of proximately US\$40 million under the 2005 Settlement Agreement was terminated, but we agreed to pay TSMC an aggregate of US\$200 million over a period of four years and committed, subject to certain terms and conditions, to issue TSMC 1,789,493,218 of our shares and one or more warrants exercisable within three years of issuance to subscribe for an aggregate of 695,914,030 of our shares, subject to adjustment, at a purchase price of HK\$1.30 per share, subject to adjustment. See “Item 10 — Additional Information — Material Contracts — Other Contracts” for a more detailed description of the share and warrant issuance agreement entered into by us and TSMC in connection with the 2009 Settlement Agreement and the warrant agreement entered into between us and TSMC in connection with the 2009 Settlement Agreement. The 1,789,493,218 ordinary shares and the warrant to purchase 695,914,030 ordinary shares, subject to adjustment, were issued on July 5, 2010. In addition, the 2009 Settlement Agreement terminated that certain patent cross-license agreement that was entered into in connection with the 2005 Settlement Agreement under which we had previously cross-licensed patent portfolios with TSMC (“the 2005 Patent Cross-License”).

Under the 2009 Settlement Agreement, each party released the other party from all claims arising out of or related to claims and counterclaims that were or could have been brought in the Settled Actions, but this release does not apply to claims of breach of the 2009 Settlement Agreement. In addition, each party covenanted not to sue the other for misappropriation or infringement of intellectual property rights, but this covenant not to sue did not extend to claims for breach of the 2009 Settlement Agreement or claims for patent or trademark infringement.

Further, the 2009 Settlement Agreement provides that if we materially breach the 2009 Settlement Agreement (or certain related documents) and fail to cure that breach within 30 days after notice from TSMC, we will pay TSMC liquidated damages, in addition to any damages arising from such breach, in the amount of US\$44 million plus a royalty equal to 5% of our gross revenues derived from foundry services with respect to our 90nm and larger manufacturing processes during the period commencing on the date of the breach and ending on the date that is



20 years from the date of the 2009 Settlement Agreement.

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There can be no assurance that TSMC will not sue us again in the future. For example, TSMC is not prohibited under the 2009 Settlement Agreement from bringing infringement claims against us which could not have been brought in the Settled Actions. Further, we are subject to several obligations under the 2009 Settlement Agreement, including obligations to protect the confidentiality of certain information, and TSMC could, in the future, allege a breach by us of the 2009 Settlement Agreement. If TSMC were successful in a claim of material breach by us of our obligations under the 2009 Settlement Agreement (or certain related documents), we have agreed to pay substantial liquidated damages as described above.

TSMC is a competitor of ours and has substantially greater resources than we do to investigate and pursue legal actions. If TSMC successfully brings additional legal actions against us, we could be subject to significant penalties which could include monetary payments and/or injunctive relief such as requirements to discontinue sales of products.

The occurrence of any of these events could have a material adverse effect on our business and operating results and, in any event, the cost of litigation could be substantial.

Our auditor, like other independent registered public accounting firms operating in China, is not permitted to be subject to inspection by Public Company Accounting Oversight Board, and as such, investors may be deprived of the benefits of such inspection.

Our independent registered public accounting firm that issues the audit reports included in our annual reports filed with the SEC, as an auditor of companies of which the stocks are traded publicly in the United States and a firm registered with the Public Company Accounting Oversight Board (United States), or PCAOB, is required by the laws of the United States to undergo regular inspections by PCAOB to assess its compliance with the applicable professional standards. Because our auditor is located in China, a jurisdiction where PCAOB is currently unable to conduct inspections without the approval of the PRC authorities, our auditor, like other independent registered public accounting firms operating in China, is currently not inspected by PCAOB.

Inspections of other firms that PCAOB has conducted outside China have identified deficiencies in those firms' audit procedures and quality control procedures, which may be addressed as part of the inspection process to improve future audit quality. The inability of PCAOB to conduct inspections of independent registered public accounting firms operating in China makes it more difficult to regularly evaluate the effectiveness of our auditor's audit procedures or quality control procedures. As a result, investors may be deprived of the benefits of PCAOB inspections.

Proceedings instituted by the SEC against the Big Four PRC-based accounting firms, including our independent registered public accounting firm, could result in our financial statements being determined to not be in compliance with the requirements of the Exchange Act.

In December 2012, the SEC brought administrative proceedings against the Big Four accounting firms, including our independent registered public accounting firm, in China, alleging that they had refused to produce audit work papers and other documents related to certain other China-based companies under investigation by the SEC for potential accounting fraud.

On January 22, 2014, an initial administrative law decision, ("Initial Decision"), was issued, censuring these accounting firms and suspending four of the five firms from practicing before the SEC for a period of six months. The accounting firms filed a Petition for review of the Initial Decision to the SEC.



On February 6, 2015, each of the Big Four China-based accounting firms agreed to a censure and to pay a fine to the SEC to settle the dispute and avoid suspension of their ability to practice before the SEC and audit U.S.-listed companies. The settlement required the firms to follow detailed procedures and to seek to provide the SEC with access to Chinese firms' audit documents via the China Securities Regulatory Commission ("the CSRC"). If future document productions fail to meet specified criteria, the SEC retains authority to impose a variety of additional remedial measures on the accounting firms depending on the nature of the failure. While we cannot predict if the SEC will further review the four China-based accounting firms' compliance with specified criteria or if the results of such a review would result in the SEC imposing penalties such as suspensions or restarting the administrative proceedings, if the accounting firms are subject to additional remedial measures, our ability to file our financial statements in compliance with the SEC requirements could be impacted. A determination that we have not timely filed financial statements in compliance with the SEC requirements could ultimately lead to the delisting of our ADSs from the NYSE or the termination of the registration of our ADSs under the U.S. Securities Exchange Act of 1934, as amended, or the Exchange Act, or both, which would substantially reduce or effectively terminate the trading of our ADSs in the United States.

The SEC's "conflict minerals" rule has caused us to incur additional expenses, could limit the supply and increase the cost of certain minerals used in manufacturing our products, and could make us less competitive in our target markets.

The SEC's conflict minerals rule requires disclosure by public companies of the origin, source and chain of custody of specified minerals, known as conflict minerals, that are necessary to the functionality or production of products manufactured or contracted to be manufactured. The rule requires companies to obtain sourcing data from suppliers, engage in supply chain due diligence, and file annually with the SEC a specialized disclosure report on Form SD covering the prior calendar year. The rule could limit our ability to source at competitive prices and to secure sufficient quantities of certain minerals (or derivatives thereof) used in the manufacture of our products, specifically tantalum, tin, gold and tungsten, as the number of suppliers that provide conflict-free minerals may be limited. We have and will continue to incur material costs associated with complying with the rule, such as costs related to the determination of the origin, source and chain of custody of the minerals used in our products, the adoption of conflict minerals-related governance policies, processes and controls, and possible changes to products or sources of supply as a result of such activities. Within our supply chain, we may not be able to sufficiently verify the origins of the relevant minerals used in our products through the data collection and due diligence procedures that we implement, which may harm our reputation. Furthermore, we may encounter challenges in satisfying those customers that require that all of the components of our products be certified as conflict free, and if we cannot satisfy these customers, they may choose a competitor's products. We continue to investigate the presence of conflict materials within our supply chain.

#### Risks Related to Manufacturing

Our manufacturing processes are highly complex, costly and potentially vulnerable to impurities and other disruptions, which could significantly increase our costs and delay product shipments to our customers.

Our manufacturing processes are highly complex, require advanced and costly equipment, demand a high degree of precision and may have to be modified to improve yields and product performance. Dust and other impurities, difficulties in the fabrication process or defects with respect to the equipment or facilities used can lower yields, because quality control problems interrupt production or result in losses of products in process. As system complexity has increased and process technology has become more advanced, manufacturing tolerances have been reduced and requirements for precision have become even more demanding. As a result, we may experience production difficulties, which could significantly increase our costs and delay product shipments to our customers. For products that cannot meet the quality, standards of our customers, we may suffer indemnification losses in addition to the

production cost.

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We may have difficulty in ramping up production, which could cause delays in product deliveries and loss of customers and otherwise adversely affect our business and operating results.

We may experience difficulty in ramping up production at new or existing facilities. This could be due to a variety of factors, including hiring and training new personnel, implementing new fabrication processes, recalibrating and re-qualifying existing processes and the inability to achieve required yield levels.

In the future, we may face construction delays or interruptions, infrastructure failure, or delays in upgrading or expanding existing facilities or changing our process technologies, which may adversely affect our ability to ramp up production in accordance with our plans. Our failure to ramp up our production on a timely basis could cause delays in product deliveries, which may result in the loss of customers and sales. It could also prevent us from recouping our investments in a timely manner or at all, and otherwise adversely affect our business and operating results.

We have formed joint ventures that, if not successful, could adversely impact our business and operating results.

In July 2004, we announced an agreement with Toppan Printing Co., Ltd., to establish Toppan SMIC Electronics (Shanghai) Co., Ltd., a joint venture in Shanghai, to manufacture color filters and micro-lenses for CMOS image sensors.

In December 2013, we lost control of Brite Semiconductor Corporation and its subsidiaries (“Brite”), but still have significant influence over it. We recorded our ownership interest of Brite as investment in associate. Brite is principally engaged in development and design of integrated circuits.

On December 22, 2014, (i) SilTech Semiconductor (Shanghai) Corporation Limited (“SilTech Shanghai”), one of our indirectly wholly-owned subsidiary;(ii) Jiangsu Changjiang Electronics Technology Co., Ltd (“JCET”); and (iii) China Integrated Circuit Industry Investment Fund Co. Ltd. (“China IC Fund”) entered into a co-investment agreement to form an investment consortium in connection with the proposed acquisition of STATS ChipPAC Ltd. (“STATS ChipPAC”), a leading provider of advanced semiconductor packaging and test services in the world and a company incorporated in the Republic of Singapore, shares of which were listed on the Singapore Exchange Securities Trading Limited before the acquisition. On June 18, 2015, according to the co-investment agreement, we invested US\$102 million as a capital contribution for 19.6% ownership interest in Suzhou Changjiang Electric Xinke Investment Co., Ltd. (“Changjiang Xinke”), a company incorporated in Jiangsu province, China, which is accounted as an associate of the Group.

On April 27, 2016, SilTech Shanghai and JCET entered into a disposal agreement, pursuant to which SilTech Shanghai agreed to sell its 19.61% ownership interest in Changjiang Xinke to JCET in consideration of RMB664 million, which will be satisfied by JCET’s issue of 43,229,166 shares of JCET to SilTech Shanghai at RMB15.36 per share. On the same day, SilTech Shanghai and JCET entered into a subscription agreement, pursuant to which SilTech Shanghai agreed to subscribe for and JCET agreed to issue 150,681,044 shares of JCET in consideration of an aggregate subscription price of RMB2,655 million in cash. On May 10, 2017, the Company was notified by JCET that the China Securities Regulatory Commission has granted approval for this transaction, and the disposal agreement and the subscription agreement became effective accordingly. On June 19, 2017, the transactions were completed and SMIC became the single largest shareholder of JCET. The Group recorded its ownership interest of JCET as investment in associate due to its right to nominate directors of JCET’s board.

The results of our joint ventures which we do not have control are reflected in our operating results to the extent of our ownership interest, and gains of the joint ventures could impact our operating results. As integration of assets and operations being contributed by each partner will involve complex activities that must be completed in a short period

of time, the joint ventures may face numerous challenges to successful operation, including all operational risks that customarily relate to manufacturing, sales, service, marketing, and corporate functions, which, if unsuccessful, may adversely impact our business and operating result.

If we are unable to obtain raw materials, spare parts and outsourcing services in a timely manner, our production schedules could be delayed and our costs could increase.

We depend on suppliers of raw materials, such as silicon wafers, gases and chemicals, and spare equipment parts, in order to maintain our production processes. To maintain operations, we must obtain from our suppliers sufficient quantities of quality raw materials and spare equipment parts at acceptable prices in a timely manner. The most important raw material used in our production is silicon in the form of raw wafers, almost all of which are sourced outside China. We currently purchase approximately 72.5% of our overall raw wafer requirements from our top three raw wafer suppliers. In addition, a portion of our gas and chemical requirements currently must be sourced outside China. We may not be able to obtain adequate supplies of raw materials and spare parts in a timely manner and at a reasonable cost. In addition, from time to time, we may need to reject raw materials and parts that do not meet our specifications, resulting in potential delays or declines in output. If the supply of raw materials and necessary spare parts is substantially reduced or disrupted; if there are significant increases in their prices; or if the lead time for the supply of raw materials and necessary spare parts are extended, we may incur additional costs to acquire sufficient quantities of these parts and materials to maintain our production schedules and commitments to customers.

We outsource certain wafer manufacturing, assembly and testing services to third parties. Any delay or interruption in the provision of supplies and/or services could result in our inability to meet customers' demand or fulfill contract terms, damage our reputation and customer relationships and adversely affect our business.

Our production may be interrupted, limited or delayed if we cannot maintain sufficient sources of fresh water and electricity, which could adversely affect our business and operating results.

The semiconductor fabrication process requires extensive amounts of fresh water and a stable source of electricity. As our production capabilities increase and our business grows, our requirements for these resources will grow substantially. While we have not, to date, experienced any instances of the lack of sufficient supplies of water or material disruptions in the electricity supply to any of our fabs, we may not have access to sufficient supplies of water and electricity to accommodate our planned growth. Droughts, pipeline interruptions, power interruptions, electricity shortages or government intervention, particularly in the form of rationing, are factors that could restrict our access to these utilities in the areas in which our fabs are located. In particular, our fabs in Tianjin and Beijing are located in areas that are susceptible to severe water shortages during the summer months. If there is an insufficient supply of fresh water or electricity to satisfy our requirements, we may need to limit or delay our production, which could adversely affect our business and operating results. In addition, a power outage, even of very limited duration, could result in a loss of wafers in production and deterioration in yield. In February 2016, a temporary power supply suspension occurred at our fabs in Beijing but it did not cause any casualty or equipment damage, and there was no material adverse financial impact on the Company.

Our operations may be delayed or interrupted due to natural disasters which could adversely affect our business and operating results.

We depend on suppliers of raw materials, such as silicon wafers, gases and chemicals, and spare equipment parts, in order to maintain our production processes in addition to requiring extensive amounts of fresh water and a stable source of electricity. The occurrence of natural disasters such as the April 2016 earthquake in Japan may disrupt this required access to goods and services provided by our suppliers as well as access to fresh water and electricity. As a result of such risk, our production could be limited or delayed due to the disruption of access to required supplies, in addition to possible damage caused to our manufacturing equipment and related infrastructure, which could adversely affect our business and operating results.





We are subject to the risk of damage due to fires or explosions because the materials we use in our manufacturing processes are highly flammable. Such damage could temporarily reduce our manufacturing capacity, thereby adversely affecting our business and operating results.

We use highly flammable materials such as silane and hydrogen in our manufacturing processes and are therefore subject to the risk of loss arising from explosions and fires. The risk of explosion and fire associated with these materials cannot be completely eliminated. Our comprehensive fire insurance and insurance for the loss of property and the loss of profit resulting from business interruption, may not be sufficient to cover all of our potential losses due to an explosion or fire. If any of our fabs were to be damaged or cease operations as a result of an explosion or fire, it could temporarily reduce our manufacturing capacity, which could adversely affect our business and operating results.

Our operations may be delayed or interrupted and our business could suffer as a result of steps we may be required to take in order to comply with environmental regulations.

We are subject to a variety of Chinese, Italian and European Union environmental regulations relating to the use, discharge and disposal of toxic or otherwise hazardous materials used in our production processes. Any failure or any claim that we have failed to comply with these regulations could cause delays in our production and capacity expansion and affect our company's public image, either of which could harm our business. In addition, any failure to comply with these regulations could subject us to substantial fines or other liabilities or require us to suspend or adversely modify our operations.

Any new regulations or customer requirements related to climate change or environmental protection could negatively impact our operating results.

There is global concern that an increase in global average temperatures due to emissions of greenhouse gases (GHG) and other human activities have caused or will cause significant changes in weather patterns, including natural disasters. Such climate change creates risks, such as the physical risks of increased sea levels or extreme weather events, and the financial risks of causing adverse effects on our operations, financial condition, supply chain, increased manufacturing costs, or reduced demand for products believed to contribute to climate change.

We may become subject to legislation, regulation, or treaty obligations designed to address global climate change, Chinese air quality, and other environmental concerns. Compliance with any new rules could be difficult and costly, causing us to incur additional energy and environmental costs, as well as costs for defending and resolving legal claims.

Furthermore, continued serious air pollution in Chinese cities where we operate could pose long-term health risks to our employees and make recruiting and retaining employees more difficult.

#### Risks related to Our New Investment Fund

Our performance may be affected by the performance of our new investment fund and we may incur losses as a result of ineffective investment.

On February 27, 2014, our wholly-owned subsidiary, SMIC Shanghai, established a wholly-owned investment fund in Shanghai which is called China IC Capital Co., Ltd (the "Fund"). As of December 31, 2017, the Fund has a capital of RMB987.0 million, all funded by SMIC Shanghai. With an operating period of 15 years from the date of the issuance of its business license, the Fund is operated and managed by an equity investment management company named

China Fortune-Tech Capital Co., Ltd (“China Fortune-Tech”), which was established by SMIC Shanghai and an independent third party on February 27, 2014. As of December 31, 2017, we held 30% ownership interest of China Fortune-Tech, which was accounted as investment in associates.

The Fund is intended to invest primarily in the integrated circuits industry but will also invest in other strategic emerging industries such as energy saving and environmental protection, information technology and new energy as well as some other traditional industries. While we generally expect China's integrated circuits industry to develop rapidly in the next decade and we believe that the other industries we will invest in also have a promising prospect of development, uncertainties due to the slow recovery of the world economy, the global market demand and consumption behaviors may lead to weak market demand in the industries in which we may choose to invest and our investees may not be able to execute their business strategies as successfully as they expect.

As a result, there is no assurance that our investment will be successful. We may incur losses in our investments through the Fund and our overall financial results may be adversely affected by such failure in the Fund's investment activities.

#### Risks Related to Conducting Operations in China

Our business is subject to extensive government regulation and benefits from certain government incentives, and changes in these regulations or incentives could adversely affect our business and operating results.

The Chinese government has broad discretion and authority to regulate the technology industry in China. China's government has also implemented policies from time to time to regulate economic expansion in China. The economy of China has been transitioning from a planned economy to a market-oriented economy. Although in recent years the Chinese government has implemented measures emphasizing the utilization of market forces for economic reform, the reduction of state ownership of productive assets, and the establishment of sound corporate governance in business enterprises, a substantial portion of productive assets in China is still owned by the Chinese government. In addition, the Chinese government continues to play a significant role in regulating industrial development. It also exercises significant control over China's economic growth through the allocation of resources, controlling payment of foreign currency-denominated obligations, setting monetary policy, and providing preferential treatment to particular industries or companies. New regulations or the readjustment of previously implemented regulations could require us to change our business plan, increase our costs or limit our ability to sell products and conduct activities in China, which could adversely affect our business and operating results.

In addition, the Chinese government has provided and continued to provide, various incentives to domestic companies in the semiconductor industry, including our company, in order to encourage the development of the industry. Such incentives include tax rebates, reduced tax rates, favorable lending policies, and other measures. Any of these incentives could be reduced or eliminated by governmental authorities at any time, which would adversely affect our business and operating results.

We face uncertainty from PRC's Circular on Strengthening the Management of Enterprise Income Tax Collection of Income Derived by Non-resident Enterprises from Equity Transfers.

The State Administration of Taxation of PRC issued the Public Notice of the State Administrative of Taxation Regarding Certain Corporate Income Tax Matters on Indirect Transfer of Properties by Non-Tax Resident Enterprises ("Circular No.7") on February 3, 2015, which further regulates and enhances the administration of Corporate Income Tax (the "CIT") on indirect transfer of the ownership interest in a China Tax Resident Enterprise (the "TRE"), and other properties in China by non-TREs. Please be reminded that Circular No. 7 takes effect from its issuance date (February 3, 2015). And the unsettled tax matters before the effective date shall follow the instructions of Circular No. 7.



Under Article 1 in Circular No. 7, where a Non-TRE indirectly transfers the ownership interest in a China TRE and other properties in China through the implementation of a scheme without a reasonable commercial purpose and resulting in the avoidance of CIT liability, such indirect transfer should be re-characterized as a direct transfer of the ownership interest in the TRE and other properties in China. In addition, under Circular No. 7, the “indirect transfer of taxable properties in China” should refer to the Non-TRE, through the transfer of the equity and other similar rights (“the equity”) of an overseas enterprise (not including overseas incorporated Chinese TREs) (“Overseas Enterprise”) which directly or indirectly owns taxable properties in China, generates the same or similar substantive outcome as compared with a direct transfer of taxable properties in China, including change in shareholder of an Overseas Enterprises resulting from restructurings of the Non-TRE. The Non-TRE who indirectly transfers taxable properties in China is referred as the “Equity Transferor”.

We do not believe that the transfer of our ordinary shares or ADSs by our non-PRC shareholders should be treated as an indirect transfer of ownership interest in our PRC subsidiaries subject to Circular No. 7, as the share transfer is carried out for listing purpose and not carried for the main purposes of avoiding PRC taxes. However, Circular No.7 is relatively new and there is uncertainty as to the interpretation and application of Circular No.7 by the PRC tax authorities in practice. If you are required to pay PRC withholding tax on the transfer of our ordinary shares or ADSs, your investment in us may be materially and adversely affected. In addition, we cannot predict how Circular No.7 will affect our financial conditions or operations. For example, we may be required to expend valuable resources on complying with Circular No. 7 or establishing that we should not be taxed under Circular No.7, any of which could have an adverse effect on our financial condition and results of operations.

Because our business is highly dependent on growth in the electronics manufacturing supply chain in China, any slowdown in this growth could adversely affect our business and operating results.

Our business is highly dependent upon the economy and the business environment in China. In particular, our growth strategy is based upon the assumption that demand in China for devices that use semiconductors will continue to grow. Therefore, any slowdown in the growth of consumer demand in China for products that use semiconductors, such as computers, mobile phones or other consumer electronics, could have a serious adverse effect on our business. In addition, our business plan assumes that an increasing number of non-Chinese IDMs, fabless semiconductor companies and systems companies will establish operations in China. Any decline in the rate of migration to China of semiconductor design companies or companies that require semiconductors as components for their products could adversely affect our business and operating results.

Limits placed on exports into China could harm our business and operating results.

The growth of our business depends on the ability of our suppliers to export and our ability to import, into China, equipment, materials, spare parts, process know-how and other technologies and hardware. Any burdensome new restrictions placed on the import and export of these items could adversely impact our growth and substantially harm our business. In particular, the international export control regime led by the United States requires our suppliers and us to obtain licenses to export and import, as applicable, certain of the above items. If we or our suppliers are unable to obtain such licenses in a timely manner, our business and operating results could be adversely affected.

Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our business and operating results.

The value of the Renminbi is subject to changes in China's governmental policies and to international economic and political developments. Since 1994, the conversion of Renminbi into foreign currencies, including Hong Kong and U.S. dollars, has been based on rates set by the People's Bank of China (the "PBOC"), which are set daily based on the previous day's interbank foreign exchange market rates and current exchange rates on the world financial markets. The Renminbi to U.S. dollar exchange rate experienced significant volatility prior to 1994, including periods of sharp devaluation. On July 21, 2005, the PBOC announced an adjustment of the exchange rate of the U.S. dollar to Renminbi from 1:8.27 to 1:8.11 and modified the system by which the exchange rates are determined. The central parity rate of the U.S. Dollar to Renminbi was set at 6.5342 on December 31, 2017 compared with 6.9370 on December 31, 2016 by the PBOC. The cumulative depreciation of the Renminbi against the U.S. dollar in 2017 was approximately 5.81%. There still remains significant international pressure on the PRC government to adopt an even more flexible currency policy, which could result in a further and more significant fluctuation of exchange rate of the Renminbi against the U.S. dollar. As a result, the exchange rate may become volatile which could have an adverse effect on our business and operating results.

In the past, financial markets in many Asian countries have experienced severe volatility and, as a result, some Asian currencies have experienced significant devaluation from time to time. The devaluation of some Asian currencies may have the effect of rendering exports from China more expensive and less competitive and therefore place pressure on China's government to devalue the Renminbi. An appreciation in the value of the Renminbi could have a similar effect. Any devaluation of the Renminbi could result in an increase in volatility of Asian currency and capital markets. Future volatility of Asian financial markets could have an adverse impact on our ability to expand our product sales into Asian markets outside of China.

We receive a portion of our sales in Renminbi, which is currently not a freely convertible currency. For the year ended December 31, 2017, approximately 30.3% of our sales were denominated in Renminbi. While we have used these proceeds for the payment of our Renminbi expenses, we may in the future need to convert these proceeds into foreign currencies to allow us to purchase imported materials and equipment, particularly as we expect the proportion of our sales to China-based companies to increase in the future. Under China's existing foreign exchange regulations, payments of current account items, including profit distributions, interest payments and expenditures from trade may be made in foreign currencies without government approval, except for certain procedural requirements. The Chinese government may, however, at its discretion, restrict access in the future to foreign currencies for current account transactions and prohibit us from converting our Renminbi sales into foreign currencies. If this were to occur, we may not be able to meet our foreign currency payment obligations.

China's legal system embodies uncertainties that could adversely affect our business and operating results.

Since 1979, many new laws and regulations covering general economic matters have been promulgated in China. Despite this activity to develop a legal system, China's system of laws has not been fully implemented. Even where adequate laws exist, enforcement of existing laws or contracts based on such laws may be uncertain and sporadic, and it may be difficult to obtain swift and equitable enforcement or to obtain enforcement of a judgment of another jurisdiction. The relative inexperience of China's judiciary system in many cases creates additional uncertainty as to the outcome of any litigation. In addition, interpretation of statutes and regulations may be effected by government policies reflecting domestic political changes.

Our activities in China will be subject to administrative review and approval by various national and local Chinese government agencies. Because of the changes occurring in China's legal and regulatory structure, we may not be able to timely secure the requisite governmental approval for our activities, which would adversely affect our business and operating results.

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Our corporate structure may restrict our ability to receive dividends from, and transfer funds to, our Chinese operating subsidiaries, which could restrict our ability to act in response to changing market conditions and reallocate funds from one Chinese subsidiary to another in a timely manner.

We are a Cayman Islands holding company. Except for the majority-owned subsidiary in Italy in which we acquired its 70% ownership interest on July 29, 2016, most of our operations are conducted through our Chinese operating subsidiaries, SMIC Shanghai, SMIC Beijing, SMIC Tianjin, SMIC Shenzhen, SMIC New Technology Research & Development (Shanghai) Corporation, SMNC, and SJ Jiangyin. The ability of these Chinese subsidiaries to distribute dividends and other payments to us may be restricted by factors that include changes in applicable foreign exchange and other laws and regulations. In particular, under Chinese law, these operating subsidiaries may only pay dividends after 10% of their net profit has been set aside as reserve funds, unless such reserves have reached at least 50% of their respective registered capital. In addition, the profit available for distribution from our Chinese operating subsidiaries is determined in accordance with generally accepted accounting principles in China. This calculation may differ from the one performed in accordance with IFRS. As a result, we may not have sufficient distributions from our Chinese subsidiaries to enable necessary profit distributions to us or any distributions to our shareholders in the future.

Distributions by our Chinese subsidiaries to us may be subject to governmental approval and taxation. Any transfer of funds from us to our Chinese subsidiaries, either as a shareholder loan or as an increase in registered capital, is subject to registration or approval of Chinese governmental authorities, including the relevant administration of foreign exchange and/or the relevant examining and approval authority. In addition, it is not permitted under Chinese law for our Chinese subsidiaries to directly lend money to one another. Therefore, it is difficult to change our capital expenditures plans once the relevant funds have been remitted from us to our Chinese subsidiaries. These limitations on the free flow of funds between us and our Chinese subsidiaries could restrict our ability to act in response to changing market conditions and reallocate funds from one Chinese subsidiary to another in a timely manner.

#### Risks Related to Ownership of Our Shares and ADSs

Future sales of securities by us or our shareholders may decrease the value of your investment.

Future sales by us or our existing shareholders of substantial amounts of our ordinary shares or ADSs in the public markets could adversely affect market prices prevailing from time to time.

We cannot predict the effect, if any, of any such future sales or of the perception that any such future sales will occur, on the market price for our ordinary shares or ADSs.

Holder of our ADSs will not have the same voting rights as the holders of our shares and may not receive voting materials in time to be able to exercise their right to vote.

Holder of our ADSs may not be able to exercise voting rights attaching to the shares evidenced by our ADSs on an individual basis. Holders of our ADSs have appointed the depositary or its nominee as their representative to exercise the voting rights attaching to the shares represented by the ADSs. Holders of our ADSs may not receive voting materials in time to instruct the depositary to vote, and it is possible that holders of our ADSs, or persons who hold their ADSs through brokers, dealers or other third parties, will not have the opportunity to exercise a right to vote.

You may not be able to participate in rights offerings and may experience dilution of your holdings as a result.

We may from time to time distribute rights to our shareholders, including rights to acquire our securities. Under the deposit agreement for the ADSs, the depository will not offer those rights to ADS holders unless both the rights and the underlying securities to be distributed to ADS holders are either registered under the U.S. Securities Act of 1933, as amended, or the Securities Act, or exempt from registration under the Securities Act with respect to all holders of ADSs. We are under no obligation to file a registration statement with respect to any such rights or underlying securities or to endeavor to cause such a registration statement to be declared effective. In addition, we may not be able to take advantage of any exemptions from registration under the Securities Act. Accordingly, holders of our ADSs may be unable to participate in our rights offerings and may experience dilution in their holdings as a result.

The laws of the Cayman Islands and China may not provide our shareholders with benefits provided to shareholders of corporations incorporated in the United States.

Our corporate affairs are governed by our memorandum and articles of association, and by the Companies Law, as revised from time to time, and the common law of the Cayman Islands. The rights of shareholders to take action against our directors, actions by minority shareholders and the fiduciary responsibilities of our directors to us under Cayman Islands law are to a large extent governed by the common law of the Cayman Islands. The common law in the Cayman Islands is derived in part from comparatively limited judicial precedent in the Cayman Islands and from English common law, the decisions of whose courts are of persuasive authority but are not binding on a court in the Cayman Islands. The rights of our shareholders and the fiduciary responsibilities of our directors under Cayman Islands law are not as clearly established as they would be under statutes or judicial precedents in the United States. In particular, the Cayman Islands have a less developed body of securities laws as compared to the United States. Therefore, our public shareholders may have more difficulty protecting their interests in the face of actions by our management, directors or controlling shareholders than shareholders of a corporation incorporated in a jurisdiction in the United States. In addition, Cayman Islands companies may not have standing to initiate a shareholder derivative action before the federal courts of the United States.

It may be difficult to enforce any judgment obtained in the United States against our company, which may limit the remedies otherwise available to our shareholders.

Substantially all of our assets are located outside the United States. Except for the majority-owned subsidiary in Italy in which we acquired its 70% ownership interest on July 29, 2016, almost all of our current operations are conducted in China. Moreover, a number of our directors and officers are nationals or residents of countries other than the United States. All or a substantial portion of the assets of these persons are located outside the United States. As a result, it may be difficult for a person to effect service of process within the United States upon these persons. In addition, there is uncertainty as to whether the courts of the Cayman Islands or China would recognize or enforce judgments of U.S. courts obtained against us or such persons predicated upon the civil liability provisions of the securities law of the United States or any state thereof, or be competent to hear original actions brought in the Cayman Islands or China, respectively, against us or such persons predicated upon the securities laws of the United States or any state thereof. See “Item 4.B — Information on the Company — Business Overview — Enforceability of Civil Liabilities.

Item 4. Information on the Company

A. History and Development of the Company

We were established as an exempted company under the laws of the Cayman Islands on April 3, 2000. Our legal name is Semiconductor Manufacturing International Corporation. Our principal place of business is 18 Zhangjiang Road, Pudong New Area, Shanghai, China, 201203; telephone number: (86) 21 3861 0000. Our registered office is located at PO Box 309, Uglan House, Grand Cayman, KY1 1104, Cayman Islands. Since March 18, 2004, we have been listed on the New York Stock Exchange under the symbol “SMI” and the Stock Exchange of Hong Kong under the stock code “0981.HK”. CT Corporation System is our agent in the United States of America and its address is 111 Eighth Avenue, New York, New York 10011, U.S.A.

We are now the largest and most advanced semiconductor foundry in mainland China. We operate wafer fabrication facilities, including facilities at Beijing, Shanghai, Tianjin and Shenzhen in China and at Avezzano in Italy (we acquired 70% of the ownership interest of LFoundry S.r.l, or LFoundry on July 29, 2016), with an aggregate capacity of up to 442,750 8 inch wafer equivalents per month.

SMIC Shenzhen

SMIC Shenzhen, which is principally engaged in, among others, the testing, development, design, manufacturing, packaging and sale of integrated circuits entered into mass production since the third quarter of 2015.

SMNC

SMNC, our majority-owned subsidiary in Beijing, is principally engaged in, among others, the testing, development, design, manufacturing, packaging and sale of integrated circuits entered into mass production since the fourth quarter of 2015.

On May 10, 2016, the Company, SMIC Beijing, China IC Fund, Beijing Semiconductor Manufacturing and Equipment Equity Investment Centre (Limited Partnership) (“Beijing Semi Fund”), Beijing Industrial Developing Investment Management Co., Ltd. (“IDIMC”) and Zhongguancun Development Group (“ZDG”) have agreed to amend the previous joint venture agreement through an amended joint venture agreement, pursuant to which: (i) the Company and SMIC Beijing’s outstanding aggregate capital contribution obligations as contained in the previous joint venture agreement will decrease from US\$804.38 million to US\$708.38 million, and their aggregate shareholding in SMNC, will decrease from 55% to 51%; and (ii) China IC Fund has agreed to make cash contribution of US\$636 million into the registered capital of SMNC. The parties’ performance of their capital contribution obligations will lead to an increase in the registered capital of SMNC from US\$1.2 billion to US\$2.4 billion. The capital contribution from China IC Fund was completed in June 2016.

On August 10, 2017, the Company, SMIC Beijing, SMIC Holdings Corporation, China IC Fund, Beijing Semi Fund, IDIMC, ZDG and Beijing E-Town International Investment & Development Co., Ltd (“E-Town Capital”) agreed to amend the previous joint venture agreement through the amended joint venture agreement, pursuant to which: (i) the Company, SMIC Beijing and SMIC Holdings Corporation have agreed to make further cash contribution of US\$1,224 million into the registered capital of SMNC. The Company’s aggregate shareholding in SMNC will remain at 51%; (ii) China IC Fund has agreed to make further cash contribution of US\$900 million into the registered capital of the Joint Venture Company. Its shareholding in the Joint Venture Company will increase from 26.5% to 32%; and (iii) E-Town Capital has agreed to make cash contribution of US\$276 million into the registered capital of the Joint Venture

Company representing 5.75% of the enlarged registered capital of the Joint Venture Company. The capital contribution is not completed as of the date of this annual report.

According to the joint venture agreements entered into by the Group and the non-controlling interest shareholders of SMNC, additional capital injection into SMNC was completed in 2015, 2016 and 2017. The additional capital injection from non-controlling interest shareholders amounted to US\$61.9 million in 2015, US\$754.1 million in 2016 and US\$294.0 million in 2017, respectively.

#### SilTech Shanghai

On December 22, 2014, (i) SilTech Shanghai, one of our indirectly wholly-owned subsidiary; (ii) JCET; and (iii) China IC Fund entered into a co-investment agreement to form an investment consortium in connection with the proposed acquisition of STATS ChipPAC, a leading provider of advanced semiconductor packaging and test services in the world and a company incorporated in the Republic of Singapore, shares of which were listed on the Singapore Exchange Securities Trading Limited before the acquisition. On June 18, 2015, according to the co-investment agreement, we invested US\$102 million as a capital contribution for 19.6% ownership interest in Changjiang Xinke, a company incorporated in Jiangsu province, China, which is accounted as an associate of the Group.

On April 27, 2016, SilTech Shanghai and JCET entered into a disposal agreement, pursuant to which SilTech Shanghai agreed to sell its 19.61% ownership interest in Changjiang Xinke to JCET in consideration of RMB664 million, which will be satisfied by JCET's issue of 43,229,166 shares of JCET to SilTech Shanghai at RMB15.36 per share. On the same day, SilTech Shanghai and JCET entered into a subscription agreement, pursuant to which SilTech Shanghai agreed to subscribe for and JCET agreed to issue 150,681,044 shares of JCET in consideration of an aggregate subscription price of RMB2,655 million in cash.

On May 10, 2017, the Company was notified by JCET that the China Securities Regulatory Commission has granted approval for this transaction, and the disposal agreement and the subscription agreement became effective accordingly. On June 19, 2017, the transactions were completed and SMIC became the single largest shareholder of JCET. The Group recorded its ownership interest of JCET as investment in associate due to its right to nominate directors of JCET's board.

#### SMIC New Technology Research & Development (Shanghai) Corporation

On June 23, 2015, Huawei, Qualcomm Global Trading Pte. Ltd. ("Qualcomm"), IMEC International ("IMEC") and we jointly issued a press release in relation to the formation of SMIC Advanced Technology Research & Development (Shanghai) Corporation, an equity joint venture company renamed as SMIC New Technology Research & Development (Shanghai) Corporation in 2017. The joint venture company focused on research and development ("R&D") towards next generation CMOS logic technology and is designed to build most advanced integrated circuit (IC) development R&D platform in China. SMIC is the major shareholder of the joint venture company, while Huawei, IMEC, and Qualcomm are minority shareholders. The current focus of the joint venture company is on developing 14nm logic technology.

#### LFoundry S.r.l.

On June 24, 2016, we, LFoundry Europe and Marsica entered into a sale and purchase agreement pursuant to which LFoundry Europe and Marsica agreed to sell and we agreed to purchase 70% of the corporate capital of LFoundry S.r.l. for an aggregate cash consideration of EUR49 million subject to adjustment. The acquisition was completed as of July 29, 2016.

#### Ningbo Semiconductor International Corporation

On October 14, 2016, Ningbo Semiconductor International Corporation (“NSI”) was jointly established by China IC Capital (the wholly-owned investment fund of SMIC), Ningbo Senson Electronics Technology Co., Ltd, and Beijing Integrated Circuit Design and Testing Fund with a registered capital of RMB355 million, equal to US\$52.8 million. SMIC holds 66.76% of the ownership interest.

On March 22, 2018, NSI, SMIC Holdings and China IC Fund entered into the equity transfer agreement, pursuant to which SMIC Holdings has agreed to sell the equity interest to China IC Fund. Upon the completion of the equity transfer, the shareholding of SMIC Holdings in NSI will decrease from approximately 66.76% to 38.59%, and NSI will cease to be a subsidiary of the Company and its financial results will cease to be consolidated with the Group's results. There is no gain or loss expected to accrue to the Company as a result of the equity transfer.

On March 23, 2018, NSI, SMIC Holdings, China IC Fund, Ningbo Senson Electronics Technology Co., Ltd, Beijing Integrated Circuit Design and Testing Fund, Ningbo Integrated Circuit Industry Fund and Infotech National Emerging Fund entered into the capital increase agreement, pursuant to which (i) SMIC Holdings has agreed to make further cash contribution of RMB565 million (approximately US\$89.4 million) into the registered capital of NSI. Its shareholding in the Joint Venture Company will decrease from approximately 38.59% to approximately 38.57%; (ii) China IC Fund has agreed to make further cash contribution of RMB500 million (approximately US\$79.2 million) into the registered capital of NSI. Its shareholding in NSI will increase from approximately 28.17% to approximately 32.97%. The all above parties' performance of the Capital Contribution obligations will lead to an increase in the registered capital from RMB355 million to RMB1.82 billion (approximately US\$56.2 million to US\$288.1 million).

#### Semiconductor Manufacturing South China Corporation

On December 1, 2016, Semiconductor Manufacturing South China Corporation ("SMSC") was established by SMIC Holdings Corporation and SMIC Shanghai. On January 30, 2018, SMIC Holdings, SMIC Shanghai, China IC Fund and Shanghai IC Fund entered into the joint venture agreement and the capital contribution agreement pursuant to which SMIC Holdings, China IC Fund and Shanghai IC Fund agreed to make cash contribution to the registered capital of SMSC in the amount of US\$1.5435 billion, US\$946.5 million and US\$800 million, respectively. As a result of the capital contribution: (i) the registered capital of SMSC will increase from US\$210 million to US\$3.5 billion; (ii) the Company's equity interest in SMSC, through SMIC Holdings and SMIC Shanghai, will decrease from 100% to 50.1%; and (iii) SMSC will be owned as to 27.04% and 22.86% by China IC Fund and Shanghai IC Fund, respectively.

#### SJ Semiconductor Corporation

SJ Semiconductor Corporation, a majority-owned 300mm bumping and probing factory in Jiangyin, entered into mass production in July 2016. Chip probing has been in production for mobile SoC, consumer and memory devices since April 2015. The products manufactured by SJ Semiconductor Corporation adopt most advanced technologies from early stage to mass production with high quality.

According to the joint venture agreements entered into by the Company and the non-controlling interest shareholders of SJ Semiconductor Corporation, additional capital injection into SJ Semiconductor Corporation was completed in 2015 and 2016. The additional capital injection from non-controlling interest shareholders amounted to US\$60.0 million in 2015 and US\$60.0 million in 2016, respectively.

#### Share Consolidation

On December 7, 2016, the Share Consolidation was effective on the basis that every ten authorized ordinary shares (whether issued or not) and preferred shares of US\$0.0004 each in the existing share capital of the Company are consolidated into one ordinary share and preferred share of US\$0.004 each, respectively.





## Capital Expenditures

We spent approximately US\$1,572.7 million, US\$2,694.7 million and US\$2,487.9 million to construct, equip and ramp up our fabs in 2015, 2016 and 2017, respectively. Currently, the planned capital expenditures in 2018 for foundry operations are approximately US\$1.9 billion. See “Item 5. A — Operating and Financial Review and Prospects — Operating Results-Factors that Impact Our Results of Operations — Substantial Capital Expenditures.”

## B. Business Overview

We provide integrated circuit (“IC”) foundry and technology services on process nodes from 0.35 micron to 28 nanometer. Headquartered in Shanghai, China, we have an international manufacturing and service base. In China, We currently have a 300mm wafer fabrication facility (“fab”) and a 200mm fab in Shanghai; a 300mm fab and 200mm fab in Shenzhen; a 300mm fab and a majority-owned 300mm fab for advanced nodes in Beijing; a 200mm fab in Tianjin; and a majority-owned joint-venture 300mm bumping facility in Jiangyin; additionally, we have a majority-owned 200mm fab in Italy.

We also have customer service and marketing offices in the U.S., Europe, Japan, and Taiwan, and a representative office in Hong Kong. The table below sets forth a summary of our current fabs:

	SMIC Shanghai 200mm	300mm	SMIC Beijing 300mm	SMIC Tianjin 200mm	SMIC Shenzhen 200mm	300mm	SMNC 300mm	LFoundry 200mm
Number and Type of fab	fab	fab	fab	fab	fab	fab	fab	fab
Wafer size	200mm	300mm	300mm	200mm	200mm	300mm	300mm	200mm
Current most advanced technology for volume production	0.11 micron	0.028 micron	0.055 micron	0.15 micron	0.11 micron	0.055 micron	0.028 micron	0.09 micron
Production, supporting, testing and maskshop clean room size	35,070m <sup>2</sup>	15,611m <sup>2</sup>	26,276m <sup>2</sup>	17,540m <sup>2</sup>	19,760m <sup>2</sup>	14,305m <sup>2</sup>	37,524m <sup>2</sup>	10,270m <sup>2</sup>

In addition to wafer fabrication, our service offerings include a comprehensive portfolio consisting of IC design libraries, circuit design blocks, design support, mask-making, wafer probing and gold/solder bumping. We have a majority-owned 300mm bumping factory in Jiangyin and we also work with our partners to provide IC assembly and testing services.

We have a global and diversified customer base that includes some of the world's leading IDMs and fabless semiconductor companies.

#### Our Products and Services

##### Manufacturing of Wafers and Our Manufacturing Capacity

We currently manufacture silicon wafers based on proprietary designs provided by our customers or third party designers.

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The following table sets forth the historical capacity and utilization rate of our wafer fabrication and facilities (all output and capacity data is provided as 8 inch wafers or 8 inch wafer equivalents per month):

Fab	2015	2016	2017
Wafer fabrication capacity as of year-end(1)			
Shanghai 200mm Fab	100,000	108,000	109,000
Shanghai 300mm Fab	31,500	45,000	38,250
Beijing 300mm Fab	83,250	96,750	103,500
Tianjin 200mm Fab	43,000	45,000	50,000
Shenzhen 200mm Fab	13,000	31,000	30,000
Shenzhen 300mm Fab	—	—	6,750
Majority-Owned Beijing 300mm Fab	13,500	40,500	65,250
Majority-Owned Avezzano 200mm Fab	—	40,000	40,000
Total monthly wafer fabrication capacity as of year-end	284,250	406,250	442,750
Wafer Fabrication capacity utilization	100.7	% 97.5	% 86.7 %

(1) Conversion of 12 inch wafers to 8 inch wafer equivalents is achieved by multiplying the number of 12 inch wafers by 2.25.

Our factories manufacture the following types of semiconductors:

- Logic (including Baseband, Application Processor, SoC, Secure ICs, Display Driver IC, ASIC/ASSP, Flash Controller, Interface Controller, Timing Controller, Audio/Video IC and FPGA);
- Mixed-Signal and RF (including RF Combo, Wi-Fi, Bluetooth, RFID, NFC, GPS, Zigbee, RF PA, RF-FEM, RF Tx/Rx, Fingerprint Sensor, Demodulator and Tuner IC);
- Power IC (including BCD, Power Management IC, LED Driver IC, Quick Charging IC, Wireless Charging IC, Linear Regulators, and Switch Regulators);
- Micro Processor (including MCU 64/32/16/8 bits, Touch Controller IC, Touch Display Driver IC, DSP, GPU and MPU);
- Memory related (including SRAM, EEPROM, low-density NAND Flash, NOR Flash, eEEPROM and eFlash, OTP/MTP and etc.);
- Optoelectronics (including FSI and BSI CIS - CMOS Image Sensor, 3D, SPAD, Analog PDs);
- Other Sensors (including MEMS Microphone, Accelerometer, Gyroscope, Smart Sensors, IMU, Micro-display, and etc.);
  - Discrete (IGBT, IPD);
- Others (including TSV, IPD, 3DIC, Hybrid Bonding and Bumping).

The following table sets forth a percentage breakdown of wafer sales by process technology for the years ended December 31, 2015, 2016 and 2017 and each of the quarters in the year ended December 31, 2017:

Process Technologies	For the year ended December 31,		For the three months ended				For the year ended	
	2015	2016	March 31, 2017	June 30, 2017	September 30, 2017	December 31, 2017	December 31, 2017	
			(based on sales in US\$)					
0.028 micron	0.13 %	1.59 %	5.00 %	6.62 %	8.83 %	11.30 %	7.97 %	
0.045 micron	15.84 %	22.38 %	20.00 %	19.14 %	20.56 %	23.55 %	20.85 %	
0.065 micron	24.31 %	20.60 %	22.03 %	23.55 %	20.22 %	15.98 %	20.38 %	
0.09 micron	4.13 %	2.28 %	1.34 %	1.36 %	1.38 %	1.81 %	1.48 %	
0.13 micron	10.51 %	12.04 %	15.36 %	17.08 %	8.12 %	6.34 %	11.64 %	
0.15 micron	0.61 %	0.29 %	0.30 %	0.33 %	6.24 %	6.25 %	3.32 %	
0.18 micron	41.09 %	37.82 %	33.37 %	29.12 %	31.59 %	31.60 %	31.45 %	
0.25 micron	0.23 %	0.21 %	0.21 %	0.30 %	0.24 %	0.21 %	0.24 %	
0.35 micron and above	3.15 %	2.79 %	2.39 %	2.50 %	2.82 %	2.96 %	2.67 %	
Total	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	100.00 %	

### Our Integrated Solutions

In addition to wafer fabrication, we provide our customers with a range of complementary services, from circuit design support and mask-making to wafer level probing and testing. This range of services is supported by our network of partners that assist in providing design, probing, final testing, packaging, assembly and distribution services.

The diagram below sets forth our service model and our key points of interaction with our customers:

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(1) A portion of this work is outsourced to our service partners.



(2) A portion of these services are outsourced to our service partners.

#### Design Support Services

Our design support services provide our customers with access to the fundamental technology files and libraries that facilitate customers' own integrated circuit design. We also offer design reference flows and access to our design center alliance, as well as layout services to our customers. In addition, we collaborate with industry leaders in electronic design automation, library and IP (intellectual property) services to create a worldwide network of expertise, resources and services that are available to our customers.

#### Libraries and Intellectual Property

As part of the fundamental building blocks for our customers' integrated circuit designs, we have a dedicated team of engineers who work with our research and development department to develop, license or acquire from third parties selected key libraries and intellectual property so that our customers can quickly design sophisticated integrated circuits that utilize our new process technologies. These include standard cell, I/O, memory compilers, embedded memory, high-speed interface, peripheral controllers, and embedded processors, among others, using 0.35 micron down to 14 nanometer process technologies. They have been developed primarily through our third party alliances, as well as by our internal research and development team, to facilitate easy design and fast integration into the overall design system. Our library partners include ARM, Synopsys, Inc., VeriSilicon, and M31.

#### Mask-making Services

While most of our mask-making services are for customers who use our wafer fabrication services, we also produce masks for other domestic and overseas fabs as a separate revenue-generating service.

Our mask-making facility, which is located in Shanghai, includes a 4,400 square meters clean room with up to class I specifications. At present, our mask shop offers five-inch by five-inch, six-inch by six-inch and seven-inch circular reticles. Our facility is capable of producing binary masks, optical proximity correction masks and phase shift masks. Our mask facility also offers mask repair services.

#### Wafer Probing, Bumping, Assembly and Testing Services

We have our own probing facility in Shanghai that provides test program development, probe card fabrication, wafer probing, failure analysis, and failure testing. We also outsource these services to our partners. Our probing facility in Shanghai, China occupies a clean room space of 2,500 square meters, which is rated at Class 1000 cleanliness equipped with advanced testers, probers and laser repair machines. We have experienced engineers to provide test solution development, probe card fabrication, wafer probing, characterization and failure analysis services for most of eMemory, Logics, SoC, Mix-Signal, CIS and MEMS applications.

We also have a probing facility in Avezzano, Italy which occupies a clean room space of about 800 square meters rated at Class 100 cleanliness and equipped with advanced testers and probers to provide test solution development, probe card design, wafer probing, characterization and failure analysis services for most of eMemory, Logics, SoC, Mix-Signal and CIS applications.

In addition, we have a majority-owned 300mm bumping and probing factory in Jiangyin, which entered into mass production in July 2016. Chip probing has been in production for mobile SoC, consumer and memory devices since April 2015. Their products adopt most advanced technologies from early stage to mass production with high

quality. We have established a network of partners that provide additional probing and bumping services, as well as assembly and testing services, to serve our customers. These partners, which include worldwide and domestic leading assembly and testing companies, have helped to enhance the range of services that we are able to offer to our customers.

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## Customers and Markets

We categorize our sales geographically based on the headquarters of customer operations instead of shipment destination. The following table sets forth the geographical distribution of our sales and percentage of sales for 2015, 2016 and 2017:

Region	For the year ended December 31, 2015		2016		2017			
	Sales	Percentage	Sales	Percentage	Sales	Percentage		
	(in US\$ thousands, except percentages)							
United States(2)	776,223	34.71	% 858,858	29.47	% 1,240,906	40.01	%	
Mainland China and Hong Kong	1,066,558	47.69	% 1,447,427	49.67	% 1,465,553	47.26	%	
Eurasia(1)	393,634	17.60	% 607,895	20.86	% 394,716	12.73	%	
Total	2,236,415	100.00	% 2,914,180	100.00	% 3,101,175	100.00	%	

(1)Europe and Asia Pacific excluding Mainland China and Hong Kong

(2)Presenting the revenue to those companies whose headquarters are in the United States, but ultimately selling products to their global customers.

The following table sets forth the breakdown of our operating revenue by product and service type for 2015, 2016 and 2017:

Product and Service Type	For the year ended December 31, 2015		2016		2017			
	Sales	Percentage	Sales	Percentage	Sales	Percentage		
	(in US\$ thousands, except percentages)							
Sales of wafers	2,134,943	95.46	% 2,803,819	96.21	% 3,038,947	97.99	%	
Mask making, testing and others	101,472	4.54	% 110,361	3.79	% 62,228	2.01	%	
Total	2,236,415	100.00	% 2,914,180	100.00	% 3,101,175	100.00	%	

We have a global and diversified customer base that includes IDMs, fabless semiconductor companies and systems companies. A significant portion of our sales is attributable to a relatively small number of our customers. For the year ended December 31, 2017, our five largest customers accounted for 51.4% of our total sales.

The following table sets forth a breakdown of our sales by application type for 2015, 2016 and 2017:

Application Type	For the year ended December 31, 2015		2016		2017			
	Sales	Percentage	Sales	Percentage	Sales	Percentage		



	(in US\$ thousands, except percentages)								
Computing(1)	100,958	4.52	%	122,451	4.20	%	192,294	6.20	%
Communication(2)	1,152,509	51.53	%	1,390,716	47.72	%	1,373,251	44.28	%
Consumer(3)	806,862	36.08	%	1,112,821	38.19	%	1,158,313	37.35	%
Auto/Industrial(4)	33,059	1.48	%	112,713	3.87	%	244,818	7.89	%
Other	143,027	6.39	%	175,479	6.02	%	132,499	4.28	%
Total	2,236,415	100.00	%	2,914,180	100.00	%	3,101,175	100.00	%

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- (1) “Computing” consists of integrated circuits such as hard disk drive controllers, DVD-ROM/CD-ROM driver, graphic processors and other components that are commonly used in desktop and notebook computers and peripherals.
- (2) “Communication” consists of integrated circuits used in both wired and wireless data communications and telecommunications applications.
- (3) “Consumer” consists of integrated circuits used for stand-alone DVD players, TV, set top box, game consoles, digital cameras, smart cards and toys.
- (4) “Auto/Industrial” consists of integrated circuits used for automotive control, infotainment, security/safety, industrial controller and power management.

#### Intellectual Property, Patents

We have several thousand patents and patent applications, in addition to third party licenses. Research and development is important for us to maintain our competitiveness. We also have various trademark registrations worldwide. However, we are not dependent on any single patent, license, or trademark, or any group of related patents, licenses or trademarks. Please also see “Item 5.C — Operating and Financial Review and Prospects — Research and Development, Patents and Licenses, etc.” on page 72.

#### Competition and Marketing Channels

We compete internationally and domestically in mainland China with dedicated foundry service providers, as well as with semiconductor companies that allocate a portion of their fabrication capacity to foundry operations. While different players in the wafer foundry market may compete on factors such as technical competence, production speed and cycle time, time-to-market, research and development quality, available capacity, yields, customer service and price, we seek to compete on the basis of process technology capabilities, performance, quality, service and price. The level of competition differs according to the process technology involved.

Our competitors are other pure-play foundries such as TSMC, UMC and Global Foundries. Another group of potential competitors consists of IDMs that have established their own foundry capabilities including Fujitsu Limited and Samsung Electronics Co., Ltd.

We have customer service and marketing offices located in the United States, Europe, Japan, mainland China and Taiwan and a representative office in Hong Kong. Our mainland China offices serve mainland China, Hong Kong and other non-Japan, non-Taiwan Asian markets, our U.S. office serves the North American market, our Taiwan office serves the Taiwan market and our Europe and Japan offices serve the European and Japanese markets, respectively. We also sell some products through sales agents in selected markets.

Some of our competitors have established operations in mainland China in order to compete for the growing domestic market in China. TSMC has its own fab in Shanghai and currently builds a wholly-owned 12 inch wafer manufacturing facility and a design service center in Nanjing. UMC has its majority-owned 8 inch fab in Suzhou and has a 12 inch joint venture fab in Xiamen. In these cases, we understand that the ability of these fabs to manufacture wafers using certain more advanced technologies is subject to restrictions by the respective home jurisdiction of TSMC and UMC; however, such restrictions could be reduced or lifted at any time, which may lead to increased competition in China with such competitors and adversely affect our business and operating results.

### Business Seasonality

In general, semiconductor foundry business is subject to seasonal behavior patterns in which business normally would peak in the third quarter of a calendar year and bottom in the first quarter.

### Raw Materials

Our fabrication processes uses many raw materials, primarily silicon wafers, chemicals, gases, and various types of precious and other metals. Raw material costs constituted 28%, 30% and 27% of our manufacturing costs in 2015, 2016 and 2017, respectively.

The three largest components of raw material costs - raw wafers, chemicals and gases - accounted for approximately 34%, 27% and 9%, respectively, of our raw material costs in 2015, approximately 31%, 30% and 10%, respectively, of our raw material costs in 2016, and approximately 31%, 31% and 9%, respectively, of our raw material costs in 2017. Most of our raw materials generally are available from several suppliers, but substantially all of our principal materials requirements must currently be sourced from outside China.

The most important raw material used in our production is silicon in the form of raw wafers. In 2017, we purchased approximately 72.5% of our overall raw wafer requirements from our three major raw wafer suppliers. The prices of our principal raw material are not considered to be volatile.

For 2015, our largest and five largest raw materials suppliers accounted for approximately 10.4% and 39.0% respectively of our overall raw materials purchases. For 2016, our largest and five largest raw materials suppliers accounted for approximately 12.4% and 38.3% respectively of our overall raw materials purchases. For 2017, our largest and five largest raw materials suppliers accounted for approximately 13.8% and 38.3% respectively of our overall raw materials purchases. Our largest two raw materials suppliers were the same in last three years. Most of our materials are imported free of value-added tax and import duties due to concessions granted to our industry in China.

### Electricity and Water

We use substantial amounts of electricity in our manufacturing process. This electricity is sourced from Pudong Electricity Corporation, Beijing Municipal Electricity Department, Tianjin Municipal Electricity Department, Shenzhen PanGuShi Municipal Electricity Department and Jiangyin Municipal Electricity Department for our facilities located in Shanghai, Beijing, Tianjin, Shenzhen and Jiangyin, respectively. We maintain uninterrupted power supply systems and emergency back-up generators and other critical equipment and systems for emergencies.

The electricity for the Avezzano site is “self-produced” by a cogeneration plant owned by LFoundry inside the plant site. The cogeneration plant is connected to the external grid that is used as a backup in case of cogeneration plant shut down. Back up electricity is provided by Enel S.p.A.

The semiconductor manufacturing process also uses extensive amounts of fresh water. We source our fresh water for our Shanghai 200mm and 300mm fabs from Pudong Veolia Water Corporation Limited, for our Beijing 300mm fab from Beijing Waterworks Group Co. Ltd., for our Tianjin 200mm fab from the Tianjin Municipal Water Department, for our majority-owned Beijing 300mm fab from Beijing Bixing High Quality Regeneration Water Co. Ltd., for our Shenzhen 200mm and 300mm fabs from Grand Industrial Zone Water Company of Shenzhen, for our majority-owned Jiangyin 300mm bumping fab from Jiangsu Jiangnan Water Co. Ltd and for our Avezzano 200mm fab from Consorzio Acquedottistico Marsicano. Because Beijing and Tianjin are subject to potential water shortages in the summer, our fabs in Beijing and Tianjin are equipped with back-up reservoirs. Our fab located in Shenzhen is also equipped with back-up reservoirs and our fab in Avezzano uses internal well and reclaims water consumption as a back-up to avoid unpredictable water shortages. We have taken steps to reduce fresh water consumption in our fabs and capture rainwater for use at our Beijing and Tianjin facilities, and our water recycling systems in most of our fabs allow us to recycle up to 80% of the water used during the manufacturing process. The Beijing, Tianjin and Shenzhen sites are also equipped to use recycled/treated industrial waste water for non-critical operations.

### Regulation

The integrated circuit industry in China is subject to substantial regulation by the Chinese government. This section sets forth a summary of the most significant Chinese regulations that affect our business in China.

### Preferential Industrial Policies Relating to ICPEs (“Integrated Circuit Production Enterprises”)

ICPEs which are duly accredited in accordance with relevant laws and regulations may qualify for preferential industrial policies. Under the Accreditation Measures, an integrated circuit enterprise refers to an independent legal entity duly established in the PRC (except for Hong Kong, Macao, and Taiwan) engaging in the production of single chip integrated circuits, multi-chip integrated circuits and hybrid integrated circuits, excluding the integrated circuit design enterprise.

Since 2015, in response to the move of the government to streamline administrative power, the State Council has promulgated various circulars to abolish relevant administrative approval for the qualification assessment, product registration and other administrative/non-administrative licensing examination and approval of IC enterprises.

SMIC Shanghai, SMIC Beijing, SMIC Tianjin, SMIC Shenzhen, SMNC and SJ Jiangyin are entitled to the preferential industrial policies described below.

#### Encouragement of Domestic Investment in ICPEs

Pursuant to the Interim Provisions on Promoting Industrial Structure Adjustment (the “Interim Provisions”), issued by the State Council on December 2, 2005, and the Catalogue for the Guidance of Industrial Structure Adjustment (the “Guidance Catalogue”), which is the basis and criteria for implementing the Interim Provisions, issued by the National Development and Reform Commission and all the State Council Institutions on March 27, 2011 and amended on February 16, 2013, March 10, 2015 and July 28, 2017, the Chinese government encourages (i) the design of integrated circuits, (ii) the fabrication of integrated circuits with a line width of less than 0.11 micron (including 0.11 micron) and (iii) the advanced packaging and testing of BGA, PGA, FPGA, CSP and MCM. Under the Interim Provisions, imported equipment that is used for a qualifying domestic investment project and that falls within such project’s approved total investment amount is exempt from custom duties except for such equipment listed in the Catalogue of Import Commodities for Domestic Investment Projects Not Entitled to Tax Exemptions, as stipulated by the State Council and amended in 2006, 2008 and 2012, as well as in the General Administration of Customs’ announcement on the relevant matters arising from the implementation of the Industrial Restructuring Guidance Catalogue (2011) by the customs (Announcement No. 36 [2011] of the General Administration of Customs) and the Notice of the State Council on Adjusting the Taxation Policies for Imported Equipment (Guo Fa [1997] No.37).

#### Encouragement of Foreign Investment in ICPEs

Pursuant to the Integrated Circuit Policies and the Guideline Catalogue of Foreign Investment Industries promulgated jointly by the State Development and Reform Commission and the Ministry of Commerce on July 28, 2017, the following foreign investment categories are encouraged:

- design of integrated circuits;
- fabrication of large scale integrated circuits with a line width of less than 28 nanometer (including 28 nanometer);
- fabrication of analog and analog digital integrated circuits with a line width of less than 0.11 micron (including 0.11 micron);
- advanced packaging and testing of BGA, PGA, CSP, MCM;
- MEMS and compound semiconductor integrated circuits.

Foreign investment in such encouraged projects may enjoy preferential treatment as stipulated by the laws and regulations.

## Preferential Taxation Policies

SMIC is incorporated in the Cayman Islands and not currently subject to taxation in the Cayman Islands.

The Law of the People's Republic of China on Enterprise Income Tax ("EIT Law") was promulgated on March 16, 2007, which became effective January 1, 2008. Under the EIT Law, domestically-owned enterprises and foreign-invested enterprises ("FIEs") are subject to a uniform tax rate of 25%, except where a special preferential rate applies. The EIT Law provides a five-year transition period starting from its effective date for those companies which were established before the promulgation date of the EIT Law and which were entitled to a preferential lower tax rate under the then effective tax laws or regulations. In accordance with regulations issued by the State Council, the tax rate of such companies may gradually transit to the uniform tax rate within the transition period. For those companies which are enjoying tax holidays, such tax holidays may continue until their expiration in accordance with the regulations issued by the State Council, but where the tax holiday has not yet started because of losses, such tax holiday shall be deemed to commence from the first effective year of the EIT Law.

Pursuant to Caishui Circular [2008] No. 1 ("Circular No. 1") promulgated on February 22, 2008, integrated circuit production enterprises whose total investment exceeds RMB8,000 million (approximately US\$1,095 million) or whose integrated circuits have a line width of less than 0.25 micron are entitled to a preferential tax rate of 15%. Enterprises with an operation period of more than 15 years are entitled to a full exemption from income tax for five years starting from the first profitable year after utilizing all prior years' tax losses and 50% reduction of the tax for the following five years. Pursuant to Caishui Circular [2009] No. 69 ("Circular No. 69"), the 50% reduction should be based on the statutory tax rate of 25%.

On January 28, 2011, the State Council of China issued Guofa [2011] No. 4 ("Circular No. 4"), the Notice on Certain Policies to Further Encourage the Development of the Software and Integrated Circuit Industries which reinstates the EIT incentives stipulated by Circular No. 1 for the software and integrated circuit enterprises.

On April 20, 2012, State Tax Bureau issued Cai Shui [2012] No. 27 ("Circular No. 27"), stipulating the income tax policies for the development of integrated circuit industry. Circular No. 1 was partially abolished by Circular No. 27 and the preferential taxation policy in Circular No. 1 was replaced by Circular No. 27.

On July 25, 2013, State Tax Bureau issued [2013] No. 43 ("Circular No.43"), clarifying that the assertion and preferential tax policy of integrated circuit enterprise established before December 31, 2010, is pursuant to Circular No.1.

On May 4, 2016, State Tax Bureau, Ministry of Finance and other joint ministries issued Caishui [2016] No. 49 ("Circular No. 49"), which highlights the implementation of the record-filing system, clarification on certain criteria for tax incentive entitlement and establishment of a post-record filing examination mechanism and enhancement of post-administration.

## Preferential Policies Encouraging Research and Development

The EIT Law and the Implementation Regulations of the EIT Law have provided tax incentives in relation to technologies as a means to encourage advancement and adoption of new technologies. The EIT Law provides an additional 50% deduction of the research and development expenses incurred from the research and development of new technologies, new products, and new techniques on the basis of the actual deductions when relevant enterprise has no intangible asset to be formed and calculated into the current gains and losses. R&D super deduction is subject

to certain application with the in-charge tax bureau with other supporting documents (i.e. specialized R&D audit report, etc.).

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## Legal Framework Concerning the Protection of Intellectual Property Relating to Integrated Circuits

China has formulated various laws and regulations on intellectual property protection in respect of integrated circuits including:

- the Patent Law of the People's Republic of China, adopted at the fourth meeting of the Standing Committee of the Sixth National People's Congress on March 12, 1984, effective April 1, 1985 and amended by the Ninth National People's Congress on August 25, 2000 and third amended by the Eleventh People's Congress on December 27, 2008, effective October 1, 2009;
- the Paris Convention for the Protection of Industrial Property of the World Intellectual Property Organization, in which China became a member state as of March 19, 1985;
- the General Principles of the Civil Law of the People's Republic of China adopted at the fourth session of the Sixth National People's Congress on April 12, 1986, effective January 1, 1987 and revised at the tenth meeting of the Standing Committee of the Eleventh National People's Congress on August 27, 2009. In this legislation, intellectual property rights were defined in China's basic civil law for the first time as the civil rights of citizens and legal persons. The General Principles of the Civil Law of the People's Republic of China was subsequently developed into the General Provisions of the Civil Law of the People's Republic of China, which was formally adopted at the fifth session of the twelfth National People's Congress on March 15, 2017, effective October 1, 2017;
- the Copyright Law of the People's Republic of China, adopted by the 15th meeting of the Seventh National People's Congress Standing Committee on September 7, 1990, effective June 1, 1991, first amended by the Ninth National People's Congress on October 27, 2001 and amended again by the Eleventh National People's Congress on February 26, 2010, effective April 10, 2010;
- the Regulations for the Protection of the Layout Design of Integrated Circuits, or the Layout Design Regulations, adopted April 2, 2001 at the thirty-sixth session of the executive meeting of the State Council, effective October 1, 2001; and
  - the World Intellectual Property Organization's Washington Treaty on Intellectual Property in Respect of Integrated Circuits, for which China was among the first signatory states in 1990.

### Protection of the Layout Design of Integrated Circuits

Under the Layout Design Regulations, layout design of an integrated circuit refers to a three dimensional configuration in an integrated circuit that has two or more components, with at least one of these being an active component, and part or all of the interconnected circuitry or the three-dimensional configuration prepared for the production of integrated circuits.

Chinese natural persons, legal persons or other organizations that create layout designs are entitled to the proprietary rights in the layout designs in accordance with the Layout Design Regulations. Foreign persons or enterprises that create layout designs and have them first put into commercial use in China are entitled to the proprietary rights in the layout designs in accordance with the Layout Design Regulations. Foreign persons or enterprises that create layout designs and that are from a country that has signed agreements with China regarding the protection of layout designs, or is a party to an international treaty concerning the protection of layout designs to which China is also a party, are entitled to the proprietary rights of the layout designs in accordance with the Layout Design Regulations.



### Proprietary Rights in Layout Design of Integrated Circuits

Holders of proprietary rights in a layout design are entitled to the following proprietary rights:

- to duplicate the whole protected layout design or any part of the design that is original; and
- to make commercial use of the protected layout design, the integrated circuit containing the layout design, or commodities containing the integrated circuit.

Proprietary rights in layout designs become valid after being registered with the administrative department of the State Council responsible for intellectual property. Unregistered layout designs are not protected by the Layout Design Regulations.

The protection period of the proprietary rights in a layout design is ten years, commencing from the date of the application for registration of the layout design or the date that it is first put into commercial use anywhere in the world, whichever is earlier. However, regardless of whether or not a layout design is registered, or whether or not it is put into commercial use, it is not protected after 15 years from the time of its creation.

### Registration of a Layout Design

The administrative departments of the State Council responsible for intellectual property are responsible for the registration of layout designs and accepting applications for the registration of layout designs. If an application for a layout design registration is not made with the administrative department of the State Council responsible for intellectual property within two years after it has been first put into commercial use anywhere in the world, the administrative department of the State Council responsible for intellectual property will not register the application. A holder of proprietary rights in a layout design may transfer the proprietary rights or give permission for other parties to use the layout design.

### Compulsory Licenses for Exploitation of Patents in Respect of Semiconductor Technology

Under the Patent Law and the Implementing Regulations of the Patent Law, three years after a patent right is granted and four years after a patent application is filed, any person or enterprise that has made good faith reasonable proposals to the holder of proprietary rights seeking a license to such right, but has been unable to obtain such license after an extended period of time, may request the administrative department responsible for patents under the State Council to grant a compulsory license for the relevant patent, provided that the patent owner fails to exploit or fails to adequately exploit the patent without justified reasons. However, where a compulsory license involves semiconductor technology, the implementation of a compulsory license is restricted to public and non-commercial uses, or to uses that counteract anti-competitive actions, as determined by judicial or administrative procedures.

### PRC Tax for “Resident Enterprises”

Under China’s EIT Law, an enterprise established under the laws of non-PRC jurisdictions, but whose “de facto management body” is located in the PRC is treated as a resident enterprise for PRC tax purpose. If we are classified as a “resident enterprise” in China, we could be subject to unfavorable tax consequences to us and our non-PRC shareholders. The implementing rules of the EIT Law define de facto management bodies as “management bodies that exercises substantial and overall management and control over the production and operations, personnel, accounting, and properties” of the enterprise. In April 2009, the State Administration of Taxation further specified criteria for the determination of the location of “de facto management bodies” for foreign enterprises, which include: (i) the enterprise’s day-to-day operational management is primarily exercised in the PRC, (ii) decisions relating to the enterprise’s financial and human resource matters are made or subject to approval by organizations or personnel in the PRC, (iii) the enterprise’s primary assets, accounting books and records, company seals, and board and shareholders’ meeting minutes are located or maintained in the PRC and (iv) 50% or more of voting board members or senior executives of the enterprise habitually reside in the PRC.

If the PRC tax authorities determine that our Cayman Islands holding company is a “resident enterprise” for PRC enterprise income tax purposes, a number of unfavorable PRC tax consequences could follow. First, we may be subject to enterprise income tax at a rate of 25% on our worldwide taxable income as well as PRC enterprise income tax reporting obligations. Second, although under the EIT Law and its implementing rules dividends income between qualified resident enterprises is tax exempted income, it is not clear how a qualified resident enterprise which is incorporated overseas would be treated under the EIT Law. Finally, it is possible that future guidance issued with respect to the “resident enterprise” classification could result in a situation in which a 10% withholding tax is imposed on dividends we pay to our non-PRC shareholders and with respect to gains derived by our non-PRC shareholders from transferring our shares or ADSs. Similarly, these unfavorable consequences could apply to our other overseas intermediary holding companies if they are classified as PRC resident enterprises.

### Environmental Regulations

Our Chinese subsidiaries are subject to a variety of Chinese environmental laws and regulations promulgated by the central and local governments, for example, the Environmental Protection Law of the People’s Republic of China, effective December 26, 1989 and amended on April 24, 2014, effective January 1, 2015, and our majority-owned Italian subsidiary is subject to a variety of Italian and European Union environmental laws and regulations promulgated by the central and local governments, for example, our operations in Europe are subject to the Environmental Protection Law Dlgs 152 effective 2006, concerning examination and acceptance of environmental protection measures in construction projects, the use, discharge and disposal of toxic and hazardous materials, the discharge and disposal of waste water, solid waste, and waste gases, control of industrial noise and fire prevention. These laws and regulations set out detailed procedures that must be implemented throughout a project’s construction and operation phases.

A key document that must be submitted for the approval of a project's construction is an environmental impact assessment report that is reviewed by the relevant environmental protection authorities. Upon completion of construction, and prior to commencement of operations, an additional examination and acceptance by the relevant environmental authority of such projects is also required. After receiving approval of the environmental impact assessment report, a semiconductor manufacturer is required to apply to and register with (in Italy, the paperwork needs to be submitted as an environmental permit request also including a declaration to) the competent environmental authority of the types and quantities of liquid, solid and gaseous wastes it plans to discharge, the manner of discharge or disposal, as well as the level of industrial noise and other related factors. If the above wastes and noise are found by the authorities to have been managed within regulatory levels, renewable discharge registrations for the above wastes and noise are then issued for a specified period of time. SMIC Shanghai, SMIC Beijing, SMIC Tianjin, SMIC Shenzhen, SMNC and SJ Jiangyin have all received approval with respect to their relevant environmental impact assessment reports and discharge registrations. LFoundry has received approval with respect to its discharge registrations and is currently under permit renewal process.

From time to time during the operation of our Chinese subsidiaries and our majority-owned Italian subsidiary, and also prior to renewal of the necessary discharge registrations, the relevant environmental protection authority will monitor and audit the level of environmental protection compliance of these subsidiaries. Discharge of liquid, solid or gaseous waste over permitted levels may result in imposition of fines or penalties, imposition of a time period within which rectification must occur or even suspension of operations.

#### Enforceability of Civil Liabilities

We are a Cayman Islands holding company. We are incorporated in the Cayman Islands because of the following benefits associated with being a Cayman Islands corporation:

- political and economic stability;
- an effective judicial system;
- a favorable tax system;
- the absence of exchange control or currency restrictions; and
- the availability of professional and support services.

However, the Cayman Islands have a less developed body of securities laws as compared to the United States and provide significantly less protection for investors. In addition, Cayman Islands companies may not have standing to initiate a shareholder derivative action before the federal courts of the United States. Substantially all of our assets are located outside the United States. In addition, most of our directors and officers are nationals and/or residents of countries other than the United States, and all or a substantial portion of our or such persons' assets are located outside the United States. As a result, it may be difficult for a shareholder to effect service of process within the United States upon us or such persons or to enforce against them or against us, judgments obtained in United States courts, including judgments predicated upon the civil liability provisions of the securities laws of the United States or any state thereof.

Conyers Dill & Pearman (Cayman) Limited, our counsel as to Cayman Islands law, DLA Piper Hong Kong, our counsel as to Hong Kong law, and Shanghai LanBai Law Firm, as well as Shanghai All Bright Law

Offices, our counsels as to Chinese law, have advised us that there is uncertainty as to whether the courts of the Cayman Islands, Hong Kong and China, respectively, would:

- recognize or enforce judgments of United States courts obtained against us or our directors or officers predicated upon the civil liability provisions of the securities laws of the United States or any state thereof, or
- be competent to hear original actions brought in each respective jurisdiction, against us or our directors or officers predicated upon the securities laws of the United States or any state thereof.

Conyers Dill & Pearman (Cayman) Limited has further advised us that a final and conclusive judgment in the federal or state courts of the United States under which a sum of money is payable, other than a sum payable in respect of taxes, fines, penalties or similar charges, may be subject to enforcement proceedings as a debt in the Courts of the Cayman Islands under the common law doctrine of obligation.

### C. Organizational Structure

We operate primarily through SMIC Shanghai, SMIC Beijing, SMIC Tianjin, SMIC Shenzhen, SMNC, SJ Jiangyin in China and LFoundry in Italy. The chart below sets forth also our other significant operating subsidiaries or affiliates, including their jurisdictions of incorporation and principal activities as of December 31, 2017:

Name of company	Place and date of incorporation/establishment	Direct or Indirect equity ownership held	Principal Activity
Better Way Enterprises Limited (“Better Way”)*	Samoa April 5, 2000	100	Provision of marketing related activities
Semiconductor Manufacturing International (Shanghai) Corporation (“SMIS” or “SMIC Shanghai”)*#	People’s Republic of China (the “PRC”) December 21, 2000	100	Manufacturing and trading of semiconductor products
SMIC, Americas	United States of America June 22, 2001	100	Provision of marketing related activities
Semiconductor Manufacturing International (Beijing) Corporation (“SMIB” or “SMIC Beijing”)*#	PRC July 25, 2002	100	Manufacturing and trading of semiconductor products
SMIC Japan Corporation	Japan October 8, 2002	100	Provision of marketing related activities
SMIC Europe S.R.L.	Italy July 3, 2003	100	Provision of marketing related activities
Semiconductor Manufacturing International (Solar Cell) Corporation	Cayman Islands June 30, 2005	100	Investment holding
SMIC Commercial Shanghai Limited Company*#	PRC September 30, 2003	100	Provision of marketing related activities
Semiconductor Manufacturing International (Tianjin) Corporation (“SMIT” or “SMIC Tianjin”)*#	PRC November 3, 2003	100	Manufacturing and trading of semiconductor products
SMIC Development (Chengdu) Corporation (“SMICD”)*#	PRC December 29, 2005	100	Construction, operation and management of SMICD’s living quarters, schools and supermarket
Semiconductor Manufacturing International (BVI) Corporation (“SMIC (BVI)”)*	British Virgin Islands April 26, 2007	100	Provision of marketing related activities
Admiral Investment Holdings Limited	British Virgin Islands October 10, 2007	100	Investment holding
SMIC Shanghai (Cayman) Corporation	Cayman Islands November 8, 2007	100	Investment holding
SMIC Beijing (Cayman) Corporation	Cayman Islands November 8, 2007	100	Investment holding
SMIC Tianjin (Cayman) Corporation	Cayman Islands November 8, 2007	100	Investment holding

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SilTech Semiconductor Corporation	Cayman Islands February 13, 2008	100	%	Investment holding
SMIC Shenzhen (Cayman) Corporation	Cayman Islands January 21, 2008	100	%	Investment holding
SMIC New Technology Research & Development (Shanghai) Corporation (formerly SMIC Advanced Technology Research & Development (Shanghai) Corporation)	PRC October 28, 2014	94.874	%	Research and development activities
SMIC Holdings Corporation#	PRC August 26, 2015	100	%	Investment holding
SJ Semiconductor Corporation	Cayman Islands August 19, 2014	56.045	%	Investment holding
SMIC Energy Technology (Shanghai) Corporation (“Energy Science”)*#	PRC September 9, 2005	100	%	Manufacturing and trading of solar cells related semiconductor products
Magnificent Tower Limited	British Virgin Islands January 5, 2006	100	%	Investment holding
SMIC Hong Kong International Company Limited (formerly “SMIC Shanghai (HK) Company Limited”)	Hong Kong December 3, 2007	100	%	Investment holding
SMIC Beijing (HK) Company Limited	Hong Kong December 3, 2007	100	%	Investment holding
SMIC Tianjin (HK) Company Limited	Hong Kong December 3, 2007	100	%	Investment holding
SMIC Solar Cell (HK) Company Limited	Hong Kong December 3, 2007	100	%	Investment holding
SMIC Shenzhen (HK) Company Limited	Hong Kong January 29, 2008	100	%	Investment holding
SilTech Semiconductor (Hong Kong) Corporation Limited	Hong Kong March 20, 2008	100	%	Investment holding
Semiconductor Manufacturing International (Shenzhen) Corporation#	PRC March 20, 2008	100	%	Manufacturing and trading of semiconductor products
SilTech Semiconductor (Shanghai) Corporation Limited#	PRC March 3, 2009	100	%	Manufacturing and trading of semiconductor products
Semiconductor Manufacturing North China (Beijing) Corporation (“SMNC”)*	PRC July 12, 2013	51	%	Manufacturing and trading of semiconductor products
China IC Capital Co., Ltd#	PRC January 17, 2014	100	%	Investment holding
Shanghai Hexin Investment Management Limited Partnership	PRC August 1, 2014	99	%	Investment holding
SJ Semiconductor (HK) Limited (“SJ Hong Kong”)*	Hong Kong September 2, 2014	56.045	%	Investment holding
SJ Semiconductor (Jiangyin) Corporation (“SJ Jiangyin”)*	PRC November 25, 2014	56.045	%	Bumping and circuit probe testing activities

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LFoundry S.r.l. (“LFoundry”)*	Italy July 24, 1998, acquired by SMIC on July 29, 2016	70	%	Manufacturing and trading of semiconductor products
Ningbo Semiconductor International Corporation	PRC October 14, 2016	53.725	%	Manufacturing and trading of semiconductor products
Semiconductor Manufacturing South China Corporation#	PRC December 1, 2016	100	%	Manufacturing and trading of semiconductor products
SJ Semiconductor USA Co.	United States of America April 6, 2016	56.045	%	Provision of marketing related activities
SMIC (Sofia) EOOD	Bulgaria March 31, 2017	100	%	Designing activities
SMIC Innovation Design Center (Ningbo) Co., Ltd.#	PRC October 13, 2017	100	%	Designing activities

\* For identification purposes only.

# Companies registered as wholly-owned foreign enterprises in the People's Republic of China. (PRC) excluding for the purpose of this report, Hong Kong, Macau, and Taiwan.

D. Property, plant and equipment

#### Equipment

The quality and level of technology of the equipment used in the semiconductor fabrication process are important because they dictate the limits of the process technology that we use. Advances in process technology cannot be achieved without corresponding advances in equipment technology. The principal pieces of equipment used by us to fabricate semiconductors are scanners, cleaners and track equipment, inspection equipment, etchers, furnaces, wet stations, strippers, implanters, sputterers, CVD equipment, testers and probers. We source substantially all of our equipment from vendors located in the United States, Europe and Japan.

In implementing our capacity expansion and technology advancement plans, we expect to make significant purchases of equipment required for semiconductor fabrication. Some of the equipment is available from a limited number of vendors and/or is manufactured in relatively limited quantities, and in some cases has only recently become commercially available. Our ability to obtain certain kinds of equipment outside of China may be subject to restrictions. See "Item 3.D — Key information — Risk Factors — Risks Related to Conducting Operations in China — Limits placed on exports into China could substantially harm our business and operating results."

We maintain our equipment through a combination of in-house maintenance and outside contracting to our equipment vendors. We decide whether to maintain ourselves, or subcontract the maintenance of, a particular piece of equipment based on a variety of factors, including cost, complexity and regularity of the required periodic maintenance and the availability of maintenance personnel in China. Most of our equipment vendors offer maintenance services through technicians based in China.



## Property

The following table sets forth the location, size and primary use of our real properties and whether such real properties are owned or leased.

Location	Size (Land/Building) (in square meters)	Primary Use	Owned(1)or Leased (Land/Building)
Zhangjiang High-Tech Park, Pudong New Area, Shanghai	45,840/26,870	Headquarter	owned/owned
Zhangjiang High-Tech Park, Pudong New Area, Shanghai	361,805/201,772	Wafer fabrication	owned/owned
Beijing Economic and Technological Development Area(2)	240,140/428,958	Wafer fabrication	owned/owned
Xiqing Economic Development Area, Tianjin	215,733/70,578	Wafer fabrication	owned/owned
Shenzhen Export Processing Zone, Shenzhen Pingshan New Area, Guangdong	200,060/225,236	Wafer fabrication	owned/owned
Avezzano (AQ), Italy	240,009/53,583	Wafer fabrication	owned/owned
Jiangyin National High-Tech Industrial Development Zone, Jiangsu Province	182,082/14,194	Bumping and circuit probe testing	owned/leased
Japan	na/103	Marketing activities	na/leased
USA	na/2,092	Marketing activities	na/leased
Milan, Italy	na/309	Marketing activities	na/owned
Taiwan	na/500	Marketing activities	na/leased
Sofia, Bulgaria	na/224	Research and Development	na/leased
Hong Kong(3)	na/300	Representative Office	na/owned

(1) With respect to land located in China, “ownership” refers to holding a valid land use rights certificate. All land within municipal zones in China is owned by the Chinese government. Limited liability companies, joint stock companies, foreign-invested enterprises, privately held companies and individual natural persons must pay fees to be granted rights to use land within municipal zones. Legal use of land is evidenced and sanctioned by land use certificates issued by the local municipal administration of land resources. Land use rights granted for industrial

purposes are limited to a term of no more than 50 years.

- (2) Including SMIC Beijing and SMNC.
- (3) In February 2006, we purchased approximately 300 square meters of property in Hong Kong through our indirect wholly-owned subsidiary, Magnificent Tower Limited, a company incorporated in the British Virgin Islands.

Our right to continued use of the land is subject to our continued compliance with the land use agreement that each of our Chinese subsidiaries has executed. The Chinese government has reserved the right to revoke our land use rights for special eminent domain purposes, in which case the government will compensate us. In addition, pursuant to our domestic bank loan agreements, SMIC Shanghai had pledged a portion of its land use right to the lenders. See “Item 5.A — Operating and Financial Review and Prospects — Operating Results — Liquidity and Capital Resources.”

For further discussion concerning our capacity, capacity utilization rate and capacity expansion plans, please see “Item 5.A — Operating and Financial Review and Prospects — Operating Results — Factors that Impact our Results of Operations.”

### Environmental Matters

The semiconductor production process generates gaseous chemical wastes, liquid waste, waste water, and other industrial wastes in various stages of the fabrication process. We have installed various types of pollution control equipment for the treatment of gaseous chemical waste and liquid waste and equipment for the recycling of treated water in our fabs. Our operations in China and Italy are subject to regulation and periodic monitoring by the PRC’s and Italian State Environmental Protection Ministry, as well as local environmental protection authorities, including those under the Shanghai Pudong Municipal Government, the Beijing Municipal Government, the Tianjin Municipal Government, the Shenzhen Municipal Government, the Jiangyin Municipal Government and local environmental protection authority in Italy, which may in some cases, establish stricter standards than those imposed by the State Environmental Protection Ministry. The Chinese and Italian national and local environmental laws and regulations impose fees for the discharge of waste substances above prescribed levels, require the payment of fines for serious violations, and authorize the Chinese and Italian national and local governments to suspend any facility that fails to comply with orders requiring it to cease or remedy operations causing environmental damage.

We believe our pollution control measures are effective and comply with the requirements applicable to the semiconductor industry in China, Italy and comparable to other countries. Waste generated from our operations, including acid waste, alkaline waste, flammable waste, toxic waste, oxidizing waste and self-igniting waste, are collected and sorted for proper disposal. Furthermore, we have in many cases implemented waste reduction steps beyond the scope of current regulatory requirements. In addition, we continuously investigate methods to lower our energy consumption, including making existing processes more efficient and reclaiming waste heat.

The ISO 14001 standard is a voluntary standard and part of a comprehensive series of standards for environmental management published by the International Standards Organization. The ISO 14001 standard covers environmental management principles, systems and supporting techniques. SMIC first received ISO 14001 certification in August 2002.

In addition, all fabs, except for SJ Jiangyin, in operation have been QC 080000 certified to be in compliance with the hazardous substances management directives such as RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment), which bans the use of various chemicals determined to be harmful to humans and the environment. The Jiangyin site plans to apply for QC080000 certification in 2019.

We are also proactively protecting the environment by implementing energy saving measures to reduce greenhouse gas emissions. In order to calculate our greenhouse gas output and to reach a reduction goal, SMIC Shanghai and SMIC Tianjin obtained ISO 14064 certification since 2010, SMIC Beijing obtained external certification from a third party according to Beijing’s local regulation on carbon trading since 2014. ISO 14064 is an international standard pursuant to which greenhouse gas (GHG) emissions reports are voluntarily verified. SMIC Shenzhen, SMNC and the

Jiangyin site plan to apply for the ISO 14064 certification in the future.

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Item 4A. Unresolved Staff Comments

Not applicable

Item 5. Operating and Financial Review and Prospects

The following discussion of our financial condition and results of operations should be read in conjunction with our consolidated financial statements and the related notes prepared in accordance with IFRS as described in “Notes to Consolidated Financial Statements” as of, and for the years ended, December 31, 2015, 2016 and 2017. This report contains forward-looking statements. See “Forward-Looking Information.” In evaluating our business, you should carefully consider the information provided under the caption “Item 3.D — Key Information — Risk Factors” in this annual report on Form 20 F. We caution you that our businesses and financial performance are subject to substantial risks and uncertainties.

A. Operating Results

Overview

Our operations are primarily based in China. We continued to achieve profitability on a full-year basis in 2017. In 2017 we achieved total sales of US\$3,101.2 million, compared to US\$2,914.2 million in 2016. We recorded annual profit of US\$126.4 million and generated US\$1,080.7 million in cash from operating activities in 2017, compared to annual profit of US\$316.4 million and US\$977.2 million in cash from operating activities in 2016. Our China revenue contributed 47.3% of the overall revenue in 2017, compared to 49.7% in 2016.

In terms of the revenue by technology, wafer revenue attributable to advanced technology at 90nm and below increased from 46.9% in 2016 to 50.7% in 2017 and, in particular, the revenue contribution percentage from 28nm technology increased from 1.6% in 2016 to 8.0% in 2017.

The major factors affecting our results of operations and financial condition are discussed below.

Factors that Impact Our Results of Operations

Cyclicality of the Semiconductor Industry

The semiconductor industry is highly cyclical due mainly to the cyclicality of demand in the markets of the products that use semiconductors. As these markets fluctuate, the semiconductor market also fluctuates. This fluctuation in the semiconductor market is exacerbated by the tendency of semiconductor companies, including foundries, to make capital investments in plant and equipment during periods of high demand since it may require several years to plan, construct and commence operations at a fab. Absent sustained growth in demand, this increase in capacity often leads to overcapacity in the semiconductor market, which in the past has led to a significant underutilization of capacity and a sharp drop in semiconductor prices. The semiconductor industry is generally slow to react to declines in demand due to its capital-intensive nature and the need to make commitments for equipment purchases well in advance of the planned expansion. See “Item 3.D — Key information — Risk Factors — Risks Related to Our Financial Condition and Business.”

Substantial Capital Expenditures

The semiconductor foundry industry is characterized by substantial capital expenditures. This is particularly true for our company as we have recently constructed and equipped fabs and are continuing to construct and equip new fabs. In connection with the construction and ramp-up of our capacity, we incurred capital expenditures of US\$1,572.7 million, US\$2,694.7 million and US\$2,487.9 million in 2015, 2016 and 2017, respectively. We depreciate our manufacturing machinery and equipment on a straight-line basis over an estimated useful life of five to seven years. We recorded depreciation of US\$473.0 million, US\$673.2 million and US\$906.0 million in 2015, 2016 and 2017, respectively.

The semiconductor industry is also characterized by rapid changes in technology, frequently resulting in obsolescence of process technologies and products. As a result, our research and development efforts are essential to our overall success. We spent approximately US\$237.2 million in 2015, US\$318.2 million in 2016 and US\$427.1 million in 2017 on research and development expenses, which represented 10.6%, 10.9% and 13.8%, respectively, of our sales for 2015, 2016 and 2017. Our research and development costs are partially offset by related government fundings and include the costs associated with the ramp-up of a new wafer facility.

We currently expect that our capital expenditures in 2018 for foundry operations will be approximately US\$1.9 billion, subject to adjustment based on market conditions, which are mainly for 1) the expansion of capacity in our majority-owned Beijing 300mm fab, Beijing 300mm fab, Shanghai 200mm fab, Shanghai 300mm fab and Jiangyin Bumping fab, 2) our new project in Tianjin, 3) a majority-owned subsidiary, which we expect will focus on research and development on 14nm FinFET technology, 4) enhancing our portfolio of comprehensive foundry solutions available to our customers, and 5) research and development equipment, mask shops and intellectual property acquisition.

In addition, we have budgeted approximately US\$47.7 million as the 2018 capital expenditures for non-foundry operations mainly for the construction of living quarters for employees as part of our employee retention program.

Our actual expenditures may differ from our planned expenditures for a variety of reasons, including changes in our business plan, our process technology, market conditions, equipment prices, or customer requirements. We will monitor the global economy, the semiconductor industry, the demands of our customers, and our cash flow from operations and will adjust our capital expenditures plans as necessary.

#### Capacity Expansion

We have expanded our production capacity in the past years and plan to continue to expand through organic growth, joint ventures and acquisitions. An increase in capacity may have a significant effect on our results of operations, both by allowing us to produce and sell more wafers and achieve higher sales, and as a cost component in the form of acquisition costs and depreciation expenses. In 2018, we expect most of our expansion will be in majority-owned Beijing 300mm fab and in our new project in Tianjin. Our target, subject to market conditions, is to reach 60,000 8-inch wafers per month installed capacity in our Tianjin 200mm fab and 33,000 12-inch wafers per month installed capacity in our majority-owned Beijing 300mm fab by December 31, 2018.

#### Pricing

We price our foundry services on either a per wafer or a per die basis, taking into account the complexity of the technology, the prevailing market conditions, the order size, the cycle time, the strength and history of our relationship with the customer, and our capacity utilization. Since a majority of our costs and expenses are fixed or semi-fixed, fluctuations in the average selling prices of semiconductor wafers have historically had a substantial impact on our margins. The average selling price of the wafers we shipped decreased from US\$736 per wafer in 2016 to US\$719 per wafer in 2017.

#### Change in Process Mix and Technology Migration

Because the price of wafers processed with different technologies varies significantly, the mix of wafers that we produce is among the primary factors that affect our sales and profitability. The value of a wafer is determined principally by the complexity of the process technology used to fabricate the wafer. In addition, production of devices

with higher levels of functionality and greater system-level integration requires more fabrication steps, and these devices generally sell for higher prices.



Prices for wafers of a given level of technology generally decline over the relevant process technology life cycle. As a result, we and our competitors are continuously in the process of developing and acquiring more advanced process technologies and migrating our customers to use such technologies to maintain or improve our profit margins. This technology migration requires continuous investment in research and development and technology-related acquisitions, and we may spend a substantial amount of capital on upgrading our technologies.

#### Capacity Utilization Rates

Operations at or near full capacity utilization have a significant positive effect on our profitability because a substantial percentage of our cost of sales is of a fixed or semi-fixed nature. If we increase our utilization rates, the number of wafers we fabricate will increase, and therefore our average fixed costs per wafer will decrease. Therefore, our capacity utilization rates have a significant effect on our margins. Our capacity utilization rates have varied from period to period mainly due to the mix of wafers produced and fluctuations in customer orders. Our capacity utilization rate was 100.7% in 2015, 97.5% in 2016 and 86.7% in 2017. Factors affecting capacity utilization rates are the overall industry conditions, the level of customer orders, the complexity of the wafers and of the mix of wafers produced, mechanical failures and other operational disruptions such as the expansion of capacity or the relocation of equipment, and our ability to manage the production facilities and product flows efficiently.

Our capacity is determined by us based on the capacity ratings for each piece of equipment, as specified by the manufacturers of such equipment, adjusted for, among other factors, actual output during uninterrupted trial runs, expected down time due to set up for production runs and maintenance, and expected product mix. Because these factors include subjective elements, our measurement of capacity utilization rates may not be comparable to those of our competitors.

#### Yield Rates

Yield per wafer is the ratio of the number of functional dies on that wafer to the maximum number of dies that can be produced on that wafer. We continuously upgrade the process technologies that we use. At the beginning of each technology migration, the yield utilizing the new technology is generally lower, sometimes substantially lower, than the yield under the then-current technology. This is because it requires time to stabilize, optimize and test a new process technology. We do not ship wafers to a customer until we have achieved that customer's minimum yield requirements. Yield is generally improved through the expertise and cooperation of our research and development personnel, process engineers, and equipment suppliers.

#### Critical Accounting Policies

We prepare our financial statements in conformity with IFRS, which requires us to make judgments, estimates and assumptions. We regularly evaluate these estimates and assumptions based on the most recently available information, our own historical experience and various other assumptions that we believe to be reasonable under the circumstances. Since the use of estimates is an integral component of the financial reporting process, actual results could differ from our expectations as a result of changes in our estimates.

An accounting policy is considered critical if it requires an accounting estimate to be made based on assumptions about matters that are highly uncertain at the time such estimate is made, and if different accounting estimates that reasonably could have been used, or changes in the accounting estimates that are reasonably likely to occur periodically, could materially impact the consolidated financial statements. We believe that the following accounting policies involve a higher degree of judgment and complexity in their applications and require us to make significant

accounting estimates. You should read the following descriptions of critical accounting policies, judgments and estimates in conjunction with our consolidated financial statements and other disclosures included in this annual report.

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## Inventories

Inventories are stated at the lower of cost (weighted average) or net realizable value (NRV), with NRV being the “estimated selling price in the ordinary course of business less the estimated costs of completion and the estimated costs necessary to make the sale.” We estimate the recoverability for such finished goods and work-in-progress based primarily upon the latest invoice prices and current market conditions. If the NRV of an inventory item is determined to be below its carrying value, we record a write-down to cost of sales for the difference between the carrying cost and NRV.

The cost of inventories recognized as expenses (incomes) in respect of inventory provision (reversal) were US\$(13.3) million, US\$3.7 million and US\$46.9 million in 2015, 2016 and 2017, respectively.

## Long-lived assets

We assess the impairment of long-lived assets when events or changes in circumstances indicate that the carrying value of asset or cash-generating unit (“CGU”) may not be recoverable. Factors that we consider in deciding when to perform an impairment review include, but are not limited to significant under- performance of a business or product line in relation to expectations, significant negative industry or economic trends, and significant changes or planned changes in the use of the assets.

An impairment analysis is performed at the lowest level of identifiable independent cash flows for an asset or CGU. Impairment exists when the carrying value of an asset or cash-generating unit exceeds its recoverable amount, which is the higher of its fair value less costs to sell and its value in use. The fair value less costs to sell calculation is based on available data from binding sales transactions, conducted at arm’s length, for similar assets or observable market prices less incremental costs for disposing of the asset. The value in use calculation is based on a discounted cash flow model. Currently we are not able to estimate the amount of impairment loss or when a loss may occur for future years. Any potential changes of the business assumptions, such as forecasted sales, selling prices, utilizations, may have a material adverse effect on our net income.

We make subjective judgments in determining the independent cash flows that can be related to a specific CGU based on its asset usage model and manufacturing capabilities. We measure the recoverability of assets that will continue to be used in our operations by comparing the carrying value of CGU to our estimate of the related total future discounted cash flows. If a CGU’s carrying value is not recoverable through the related discounted cash flows, the impairment loss is measured by comparing the difference between the CGU’s carrying value and its recoverable amount, based on the best information available, including market prices or discounted cash flow analysis. The recoverable amount is most sensitive to the discount rate used for the discounted cash flow model as well as the expected future cash-inflows and the growth rate used for extrapolation purposes.

In order to remain technologically competitive in the semiconductor industry, we have entered into technology transfer and technology license arrangements with third parties in an attempt to advance our process technologies. The payments made for such technology licenses are recorded as an intangible asset or as a deferred cost and amortized on a straight-line basis over the estimated useful life of the asset. We routinely review the remaining estimated useful lives of these intangible assets and deferred costs. We also evaluate these intangible assets and deferred costs for impairment whenever events or changes in circumstances indicate that their carrying amounts may not be recoverable. When the carrying amounts of such assets are determined to exceed their recoverable amounts, we will impair such assets and write down their carrying amounts to recoverable amount in the year when such determination was made.



### Share-based Compensation Expense

The fair value of options and shares issued pursuant to our option plans at the grant date was estimated using the Black-Scholes option pricing model. This model was developed for use in estimating the fair value of traded options that have no vesting restrictions and are fully transferable. In addition, option-pricing models require the input of highly subjective assumptions, including the expected term of the options, the estimated forfeiture rates and the expected stock price volatility. The expected term of options granted represents the period of time that options granted are expected to be outstanding. We estimated forfeiture rates using historical data to estimate option exercise and employee termination within the pricing formula. We use projected volatility rates based upon the Company's historical volatility rates. These assumptions are inherently uncertain. Different assumptions and judgments would affect our calculation of the fair value of the underlying ordinary shares for the options granted, and the valuation results and the amount of share-based compensation would also vary accordingly.

For further discussion on our share-based employee compensation plans see "Item 6.E — Directors, Senior Management and Employees — Share Ownership."

### Taxes

As a company incorporated in the Cayman Islands, we are not subject to taxation in the Cayman Islands.

Our other subsidiaries are subject to their respective jurisdictions' income tax laws, including Japan, Taiwan, the United States and Europe. Our income tax obligations to date have been minimal.

Uncertainties exist with respect to the interpretation of complex tax regulations, changes in tax laws, and the amount and timing of future taxable income. Given the wide range of international business relationships and the long-term nature and complexity of existing contractual agreements, differences arising between the actual results and the assumptions made, or future changes to such assumptions, could necessitate future adjustments to tax income and expense already recorded. We established provisions, based on reasonable estimates, for possible consequences of audits by the tax authorities of the respective countries in which it operates. The amount of such provisions is based on various factors, such as experience of previous tax audits and differing interpretations of tax regulations by the taxable entity and the responsible tax authority. Such differences of interpretation may arise on a wide variety of issues depending on the conditions prevailing in the respective domicile of us.

Deferred tax assets are recognized for unused tax losses to the extent that it is probable that taxable profit will be available against which the losses can be utilized. Significant management judgment is required to determine the amount of deferred tax assets that can be recognized, based upon the likely timing and the level of future taxable profits together with tax planning strategies.

No deferred tax asset, in respect of tax losses of US\$577.3 million for 2015, US\$444.0 million for 2016 and US\$235.1 million for 2017, respectively, were recognized due to the unpredictability of future profit streams. The realizability of the deferred tax asset mainly depends on whether sufficient profits or taxable temporary differences will be available in the future. In cases where the actual future profits generated are less than expected, a material reversal of deferred tax assets may arise, which would be recognized in profit or loss for the period in which such a reversal takes place. For further details on taxes see "Note 10 to Consolidated Financial Statements".

### Fair value measurements and valuation processes

Some of our assets and liabilities are measured at fair value for financial reporting purposes.

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In estimating the fair value of an asset or a liability, we use market-observable data to the extent it is available. Where Level 1 inputs are not available, we engage third party qualified appraisers to perform the valuation.

We use valuation techniques that include inputs that are not based on observable market data to estimate the fair value of certain types of financial instruments.

#### Impairment of trade and other receivable

We assess at the end of each reporting period whether there is any objective evidence that trade and other receivable are impaired. To determine whether there is objective evidence of impairment, we consider factors such as the probability of insolvency or significant financial difficulties of the debtor and default or significant delay in payments.

When there is objective evidence of impairment loss, we take into consideration the estimation of future cash flows. The amount of the impairment loss is measured as the difference between the asset's carrying amount and the present value of estimated future cash flows (excluding future credit losses that have not been incurred) discounted at the financial asset's original effective interest rate (that is, the effective interest rate computed at initial recognition). Where the actual future cash flows are less than expected, a material impairment loss may arise.

#### Foreign Currency Fluctuations

Our revenue, expenses, and capital expenditures are primarily transacted in U.S. dollars. We also enter into transactions in other currencies. We are primarily exposed to changes in exchange rates for the Euro, the Japanese Yen, and RMB. Accordingly, we are affected by fluctuations in exchange rates between the U.S. dollar and each of the Japanese Yen, the Euro and the RMB. See "Item 3.D — Key Information — Risk Factors — Risks Related to Conducting Operations in China — Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our operating results" and "Risk Factors - Risks Related to Our Financial Condition and Business — Exchange rate fluctuations could increase our costs, which could adversely affect our operating results and the value of our ADSs" for a discussion of the effects on our company of fluctuating exchange rates and "Item 11 — Quantitative and Qualitative Disclosures About Market Risk — Foreign Exchange Rate Fluctuation Risk" for a discussion of our efforts to minimize such risks".

## Recent Accounting Pronouncements

We have not applied the following new and revised IFRSs that have been issued but are not yet effective:

New or revised IFRSs	Effective date
IFRS 9 — Financial Instruments	On or after January 1, 2018
IFRS 15 — Revenue from contracts with customers	On or after January 1, 2018
Amendments to IFRS 2 — Classification and measurement of share-based payment transactions	On or after January 1, 2018
Amendments to IAS 28 — Investments in associates and joint ventures	On or after January 1, 2018
IFRS 16 — Lease	On or after January 1, 2019
IFRS 17 — Insurance Contracts	On or after January 1, 2021
Amendments to IFRS 10 and IAS 28 — Sale or contribution of assets between an investor and its associate or joint venture	Not yet determined
IFRIC 22 — Foreign Currency Transactions and Advance Consideration	On or after January 1, 2018
IFRIC 23 — Uncertainty over Income Tax Treatments	On or after January 1, 2019

The new IFRS 9 standard addresses the classification, measurement and derecognition of financial assets and financial liabilities, introduces new rules for hedge accounting and a new impairment model for financial assets. IFRS 9 is effective for annual periods beginning on or after January 1, 2018 on a retrospective basis. Comparatives for 2017 will not be restated, except in relation to changes in the fair value of foreign exchange forward contracts attributable to forward points, which will be recognized in the costs of hedging reserve.

The new IFRS 15 standard establishes a single revenue recognition framework. The core principle of the framework is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods and services. IFRS 15 supersedes existing revenue recognition guidance including IAS 18 Revenue, IAS 11 Construction Contracts and related interpretations. The standard permits either a full retrospective method to each prior reporting period presented or a modified retrospective approach with the cumulative effect of initially applying the guidance recognized at the date of initial application. In 2017, we have performed a detailed assessment on the impact of the adoption of IFRS 15 and decided to adopt a modified retrospective approach. The expected changes in accounting policies will not have any significant impact on the Group's financial statements.

IFRS 16 will result in almost all leases being recognized on the balance sheet, as the distinction between operating and finance leases is removed. Under the new standard, an asset (the right to use the leased item) and a financial liability to pay rentals are recognized. The only exceptions are short-term and low-value leases. The accounting for lessors will not significantly change. IFRS 16 is effective for annual periods beginning on or after January 1, 2019. Early application is permitted, but not before an entity applies IFRS 15. A lessee can choose to apply the standard using either a full retrospective or a modified retrospective approach. The standard's transition provision permit certain



reliefs. In 2018, We will continue to assess the potential effect of IFRS 16 on our consolidated financial statements.

There are no other standards that are not yet effective and that would be expected to have a material impact on the entity in the current or future reporting periods and on foreseeable future transactions.

Incentives from the Chinese government

The chart below sets forth a brief summary of the material incentives received by our Chinese subsidiaries as qualified integrated circuit production enterprises (ICPE) from the Chinese government. Our Shanghai, Beijing, Tianjin, Shenzhen and Jiangyin subsidiaries are qualified as ICPEs under the Integrated Circuit Policies. Under these policies, ICPEs whose total investment exceeds RMB8,000 million (approximately US\$1,095 million) or whose integrated circuits have a line width of less than 0.25 micron are entitled to the benefits listed below. For a more detailed discussion of these incentives, see “Item 4.B — Information on the Company — Business Overview — Regulation.”

Incentive	SMIS; SMIB; SMIT; SMIC Shenzhen; SMNC and SJ Jiangyin
Preferential Enterprise Income Tax Policies	Five-year full exemption and five-year 50% reduction upon approval from the local tax bureau
Incentive	SMIS; SMIB; SMIT; SMNC and SJ Jiangyin
Preferential Customs Duties and Import-related VAT Policies	Exemption from customs duties and imported-related VAT with respect to its qualified spare parts, and raw materials pursuant to the Tax-Exemption Categories (SMIC Shenzhen is located in Shenzhen Export Processing Zone).

## Operating Results

The following table sets forth a summary of our consolidated results of operations for the periods indicated. We believe that period-to-period comparisons of results of operations should not be relied upon as indicative of future performance.

	For the year ended December 31,		
	2015	2016	2017
	(in US\$ thousands, except for earnings per share)		
Revenue	2,236,415	2,914,180	3,101,175
Cost of sales	(1,553,795)	(2,064,499)	(2,360,431)
Gross profit	682,620	849,681	740,744
Research and development expenses, net	(237,157)	(318,247)	(427,111)
Sales and marketing expenses	(41,876)	(35,034)	(35,796)
General and administration expenses	(213,177)	(157,371)	(197,899)
Other operating income (expense), net	31,594	177	44,957
Profit from operations	222,004	339,206	124,895
Interest income	5,199	11,243	27,090
Finance costs	(12,218)	(23,037)	(18,021)
Foreign exchange gains or losses	(26,349)	(1,640)	(12,694)
Other gains or losses, net	55,611	(2,113)	16,499
Share of profit (loss) of investment accounted for using equity method	(13,383)	(13,777)	(9,500)
Profit before tax	230,864	309,882	128,269
Income tax (expense) benefit	(8,541)	6,552	(1,846)
Profit for the year	222,323	316,434	126,423
Other comprehensive income (loss)			
Items that may be reclassified subsequently to profit or loss			
Exchange differences on translating foreign operations	(8,185)	(19,031)	23,213
Change in value of available-for-sale financial assets	452	807	(2,381)
Cash flow hedges	—	(34,627)	35,143
Share of other comprehensive income of joint ventures accounted for using equity method	—	—	17,646
Others	130	1	(131)
Items that will not be reclassified to profit or loss			
Actuarial gains or losses on defined benefit plans	—	1,520	(436)
Total comprehensive income for the year	214,720	265,104	199,477
Profit (loss) for the year attributable to:			
Owners of the Company	253,411	376,630	179,679
Non-controlling interests	(31,088)	(60,196)	(53,256)
	222,323	316,434	126,423
Total comprehensive income (expense) for the year attributable to:			
Owners of the Company	245,803	326,191	251,135
Non-controlling interests	(31,083)	(61,087)	(51,658)

	214,720	265,104	199,477
Earnings per share*			
Basic	\$ 0.07	\$ 0.09	\$ 0.04
Diluted	\$ 0.06	\$ 0.08	\$ 0.04

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\*The basic and diluted earnings per share and the number of shares for the prior years have been adjusted to reflect the impact of the Share Consolidation, on the basis that every ten ordinary shares of US\$0.0004 each consolidated into one ordinary share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016.

## Revenue

We generate our sales primarily from fabricating semiconductors. We also derive a relatively small portion of our sales from the mask-making, wafer probing, and other services that we perform for third parties separately from our foundry services. A significant portion of our net sales is attributable to a relatively small number of our customers. In 2015, 2016, and 2017 our five largest customers accounted for approximately 52.8%, 54.6% and 51.4%, respectively, of our sales.

## Cost of sales

Our cost of sales consists principally of:

- depreciation and amortization;
- overhead, including maintenance of production equipment, indirect materials, including chemicals, gases and various types of precious and other metals, utilities, royalties and inventory provision;
- direct materials, which consist of raw wafer costs;
- labor, including share-based compensation expenses for employees directly involved in manufacturing activities; and
- production support, including facilities, utilities, quality control, automated systems and management functions.

## Income (expenses) and gains (loss) from operations

- Research and development expenses. Research and development expenses consist primarily of salaries and benefits of research and development personnel, materials costs, depreciation and maintenance on the equipment used in our research and development efforts, contracted technology development costs, and the costs associated with the ramp-up of new fabs. Research and development expenses are partially offset by related government fundings.
- General and administrative expenses. General and administrative expenses consist primarily of salaries and benefits for our administrative support, finance and human resource personnel, commercial insurance, fees for professional services, city maintenance and construction tax expenses, educational surtax expenses and bad debt expenses.
- Selling and marketing expenses. Selling and marketing expenses consist primarily of salaries and benefits of personnel engaged in sales and marketing activities, costs of customer wafer samples, other marketing incentives and related marketing expenses.
- Other operating income (loss). Other operating income (loss) consist primarily of gains or losses arising from disposal of our living quarters, gains or losses arising from disposal of subsidiaries, losses arising from disposal of equipment and impairment loss of long-lived assets.

## Finance cost

Our finance costs consist of:

- interest expenses, net of government fundings and capitalized portions, which have been primarily attributable to our bank loans, corporate bonds, medium-term and short-term notes, finance leases and the imputed interest rate on the outstanding interest-free convertible bonds.

Other gains or losses, net

Our other gains or losses mainly consist of:

- gains and losses from our schools, kindergartens and living quarters;
- the changes of fair value and disposal gains or losses of the financial products sold by banks;
- the changes of fair value of the put option related to our investment in Changjiang Xinke; and
- the changes of fair value of the cross currency swap contracts before being designated as hedging instrument of cash flow hedges.

Comparison of the Years Ended December 31, 2015, 2016 and 2017

Year Ended December 31, 2017 Compared to Year Ended December 31, 2016

## Revenue

Revenue increased by 6.4% from US\$2,914.2 million for 2016 to US\$3,101.2 million for 2017, primarily due to an increase in wafer shipments in 2017. The number of wafer shipments increased by 8.9% from 3,957,685 8-inch wafer equivalents for 2016 to 4,310,779 8-inch wafer equivalents for 2017, mainly due to the higher demand for the wafer by using advanced 45nm and below technologies in 2017..

The average selling price of the wafers we shipped decreased from US\$736 per wafer in 2016 to US\$719 in 2017. The percentage of wafer revenues from advanced 45nm and below technologies increased from 24.0%

in 2016 to 28.8% in 2017. The revenue dollar amount contributed from advanced 45nm and below technologies increased from US\$672.1 million in 2016 to US\$875.8 million in 2017.

#### Cost of sales and gross profit

Cost of sales increased by 14.3% from US\$2,064.5 million for 2016 to US\$2,360.4 million for 2017, primarily due to the increase in wafer shipments in 2017 and the increase in depreciation in 2017 caused by the increased capital expenditure. Out of the total cost of sales, US\$583.7 million and US\$774.3 million were attributable to depreciation and amortization for the year ended December 31, 2016 and 2017, respectively.

Our gross profit was US\$740.7 million for 2017 compared to US\$849.7 million for 2016, representing a decrease of 12.8%. Gross margin was 23.9% in 2017 compared to 29.2% in 2016. The decline in gross margin was primarily due to the lower average selling price, the increase in depreciation and the decrease in utilization in 2017.

#### Profit for the year from operations

Profit from operations decreased from US\$339.2 million for the year ended December 31, 2016 to US\$124.9 million for the year ended December 31, 2017 primarily due to the combined effect of the increase in depreciation and in wafer shipments, the decrease in utilization, and the following changes:

Research and development expenses increased by 34.2% from US\$318.2 million for the year ended December 31, 2016 to US\$427.1 million for the year ended December 31, 2017. The increase was mainly due to the higher level of research and development activities in 2017.

General and administrative expenses increased by 25.8% from US\$157.4 million for the year ended December 31, 2016 to US\$197.9 million for the year ended December 31, 2017. The increase was primarily due to 1) the start-up cost relating to our new Shenzhen 300mm fab, 2) less reversal of allowance on doubtful trade and other receivables in 2017 and 3) increased utility cost, depreciation and patent application expenses in 2017.

Sales and marketing expenses increased by 2.2% from US\$35.0 million for the year ended December 31, 2016 to US\$35.8 million for the year ended December 31, 2017.

Other operating incomes increased from US\$0.2 million for the year ended December 31, 2016 to US\$45.0 million for the year ended December 31, 2017. The increase was mainly due to 1) increased gain on disposal of property, plant and equipment and 2) increased government funding received in 2017.

#### Profit for the Year

Finance cost decreased by 21.8% from US\$23.0 million for the year ended December 31, 2016 to US\$18.0 million for the year ended December 31, 2017. The decrease was mainly due to the deduction of the interest subsidies received from the government.

Foreign exchange gains or losses decreased US\$11.1 million from US\$1.6 million net loss for the year ended December 31, 2016 to US\$12.7 million net loss for the year ended December 31, 2017. The change was mainly due to an appreciation of RMB against USD in 2017.

Other gains and losses, net increased by US\$18.6 million from US\$2.1 million net loss for the year ended December 31, 2016 to US\$16.5 million net gain for the year ended December 31, 2017. The increase was mainly due to 1) a gain of US\$18.5 million arising from the consummation of the transactions contemplated by the disposal agreement and the subscription agreement entered by SilTech Shanghai and JCET on April 27, 2016, 2) a loss of contingent cash compensation of US\$12.5 million that may be incurred depending on the profit generated by Changjiang Xinke during a three-year period from 2017 to 2019, which will become



payable in one installment at the end of 2019 and 3) the gains arising from the fair value change of cross currency swap contracts designated as hedging instrument of cash flow hedges in 2017 against losses in 2016.

Income tax (expense) benefit changed from US\$6.6 million benefit for the year ended December 31, 2016 to US\$1.8 million expense for the year ended December 31, 2017. The change was mainly due to the reversal of deferred tax asset for previously recognized temporary differences which will not be utilized.

Due to the factors described above, the Group recorded a profit of US\$126.4 million in 2017 compared to US\$316.4 million in 2016.

Year Ended December 31, 2016 Compared to Year Ended December 31, 2015

#### Revenue

Revenue increased by 30.3% from US\$2,236.4 million for 2015 to US\$2,914.2 million for 2016, primarily due to 1) an increase in wafer shipments in 2016 including a significant increase in China sales and 2) the revenue of US\$87.4 million contributed from the acquisition of LFoundry. For 2016, the overall wafer shipments were 3,957,685 units of 8 inch equivalent wafers, up 31.2% year-over-year, primarily due to the increasing sales orders received and our expanded capacity to meet growing customer's demands in 2016.

The average selling price of the wafers the Group shipped decreased from US\$742 per wafer in 2015 to US\$736 in 2016. The percentage of wafer revenues from advanced 45nm and below technologies increased from 16.0% in 2015 to 24.0% in 2016. The revenue dollar amount contributed from advanced 45nm and below technologies increased from US\$340.9 million in 2015 to US\$672.1 million in 2016.

#### Cost of sales and gross profit

Cost of sales increased by 32.9% from US\$1,553.8 million for 2015 to US\$2,064.5 million for 2016, primarily due to an increase in wafer shipments and an increase in manufacturing costs as the majority-owned 300mm fab in Beijing entered into mass production in December 2015. Out of the total cost of sales, US\$424.9 million and US\$583.7 million were attributable to depreciation and amortization for the year ended December 31, 2015 and 2016, respectively.

Our gross profit was US\$849.7 million for 2016 compared to US\$682.6 million for 2015, representing an increase of 24.5%. Gross margin was 29.2% in 2016 compared to 30.5% in 2015. The decline in gross margin was primarily due to 1) increased manufacturing costs from our majority-owned 300mm fab in Beijing which entered into mass production in December 2015 and 2) the acquisition of LFoundry in July 2016.

#### Profit for the year from operations

Profit from operations increased from US\$222.0 million for the year ended December 31, 2015 to US\$339.2 million for the year ended December 31, 2016 primarily due to an increase in wafer shipments in 2016, offset by 1) the lower gain realized from the disposal of our living quarters in 2016 and 2) higher level of R&D activities in 2016.

Research and development expenses increased by 34.2% from US\$237.2 million for the year ended December 31, 2015 to US\$318.2 million for the year ended December 31, 2016. The increase was mainly due to higher level of R&D activities.

General and administrative expenses decreased by 26.2% from US\$213.2 million for the year ended December 31, 2015 to US\$157.4 million for the year ended December 31, 2016. The decrease was primarily due to 1) the majority-owned 300mm fab in Beijing entered into mass production in December 2015 and as a result, there were no pre-operating related expenses recorded in 2016 and 2) the reversal of allowance for doubtful debts resulted from the collected part of trade receivables from customers in 2016.

Sales and marketing expenses decreased by 16.3% from US\$41.9 million for the year ended December 31, 2015 to US\$35.0 million for the year ended December 31, 2016. The decrease was because our major customers remained stable in 2016 and we did not need to spend too much effort in sales and marketing to retain those major customers in 2016.

Other operating income, net decreased by 99.4% from US\$31.6 million for the year ended December 31, 2015 to US\$0.2 million for the year ended December 31, 2016. The decrease was due to 1) the lower gain arising from the disposal of our living quarters in 2016, 2) the loss arising from the disposal of equipment in 2016 and 3) an impairment loss of equipment recognized in 2016.

As a result of the foregoing changes, our profit from operations increased to US\$339.2 million for the year ended December 31, 2016 from US\$222.0 million for the year ended December 31, 2015.

#### Profit for the Year

Finance cost increased by 88.5% from US\$12.2 million for the year ended December 31, 2015 to US\$23.0 million for the year ended December 31, 2016. The increase was mainly because we entered into several new loan facility agreements and financing arrangements, and issued the new convertible bonds and the medium-term and short-term notes in 2016.

Foreign exchange gains or losses improved by 93.8% from US\$26.3 million net loss for the year ended December 31, 2015 to US\$1.6 million net loss for the year ended December 31, 2016. The change was mainly due to the loss arising from devaluation of RMB against USD in 2015.

Other gains and losses, net decreased by US\$57.7 million from US\$55.6 million net gain for the year ended December 31, 2015 to US\$2.1 million net loss for the year ended December 31, 2016. The decrease was mainly due to 1) the lower gain from the changes in fair value of the financial products sold by banks, 2) the lower gain from the changes of fair value of the put option related to our investment in Changjiang Xinke and 3) the loss arising from the fair value change of cross currency swap contracts before they were designated as hedging instrument of cash flow hedges in 2016.

Income tax benefit (expense) changed from US\$8.5 million expense for the year ended December 31, 2015 to US\$6.6 million benefit for the year ended December 31, 2016. The change was mainly due to the recognition of deferred tax asset for deductible temporary differences.

Due to the factors described above, we recorded a profit of US\$316.4 million in 2016 compared to US\$222.3 million in 2015.

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## B. Liquidity and Capital Resources

We anticipate our working capital to be sufficient for our present requirements. We will require access to significant capital to fund our future capital expenditures and capacity expansion requirements, which are difficult to plan in the rapidly changing semiconductor manufacturing industry.

In 2017, SMIC Shanghai entered into a loan facility in the aggregate principal amount of RMB1,000.0 million with The Export-Import Bank of China. SMIC Beijing entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China. SMIC Tianjin entered into two new loans, a three-year working capital loan facility in the principal amount of RMB500.0 million with The Export-Import Bank of China and a five-year loan facility in the aggregate principal amount of USD25.0 million with The Export-Import Bank of China. SMIC Shenzhen entered into two new loans, a seven-year loan facility in the aggregate principal amount of RMB1,214 million with China Development Bank and a five-year loan facility in the aggregate principal amount of RMB500 million with The Export-Import Bank of China. Additionally, LFoundry entered into a nine-year soft loan facility in the aggregate principal amount of EUR1.2 million with Banca del Mezzogiorno.

On December 6, 2017, pursuant to the terms and conditions of the placing agreement entered by the Company and joint placing agents, the Company allotted and issued 241,418,625 placing shares, representing approximately 4.92% of the issued share capital of the Company as enlarged by the issue of the placing shares, to not less than six independent places at the price of HK\$10.65 per placing share.

On December 14, 2017, the Company fulfilled all conditions set out in the placed perpetual subordinated convertible securities (the "PSCS") subscription agreement and completed the issue of the PSCS in the principal amount of US\$65.0 million. The net proceeds (after deduction of fees, commissions and expenses) are approximately US\$64.1 million.

In 2017, the capital contributions from non-controlling interests shareholders approximately amounted to US\$294.0 million into the registered capital of SMNC.

We plan to fund our capital expenditure through the cash on hand, cash flows from operations in 2018, borrowings under existing credit facilities, and proceeds from the above described note financings, the capital contribution from non-controlling interest shareholders as well as other external financing. See "Item 3.D — Key information — Risk Factors — Risks Related to Our Financial Condition and Business — Since our operating cash flows may not be sufficient to cover our planned capital expenditures, we will require additional external financing, which may not be available on acceptable terms, or at all. Any failure to raise adequate funds in a timely manner could adversely affect our business and operating results."

The following table sets forth a condensed summary of our statements of cash flows for the periods indicated:

	For the Years Ended December 31,		
	2015	2016	2017
	(in US\$ thousands)		
Cash Flow Data:			
Profit for the year	222,323	316,434	126,423
Non-cash adjustment to reconcile profit to net operating cash flow:			
Depreciation and amortization	523,549	729,866	971,382
Net cash generated from operating activities	669,197	977,202	1,080,686
Payments for property, plant and equipment	(1,230,812)	(2,757,202)	(2,287,205)
Net cash used in investing activities	(789,556)	(2,443,333)	(2,662,139)
Net cash from financing activities	537,078	2,614,778	1,271,591
Net increase (decrease) in cash and cash equivalents	416,719	1,148,647	(309,862)

#### Operating Activities

As of December 31, 2017, we had US\$1,838.3 million in cash and cash equivalents. These cash and cash equivalents were held in the form of United States dollars, Japanese Yen, Euros, and Renminbi. Our net cash generated from operating activities in 2017 was US\$1,080.9 million, which was primarily due to the net profit of US\$126.4 million and the added back of US\$971.4 million in depreciation and amortization. The cash inflow was mainly generated from selling goods and rendering services, and the cash outflow was mainly for the purchase of goods and services and for payment made to and on behalf of employees. The increase in net cash generated from operating activities is mainly due to the increase in sales of goods partially offset by the decrease in trade and other receivables in 2017.

As of December 31, 2016, we had US\$2,126.0 million in cash and cash equivalents. These cash and cash equivalents were held in the form of United States dollars, Japanese Yen, Euros, and Renminbi. Our net cash generated from operating activities in 2016 was US\$977.2 million, which was primarily due to the net profit of US\$316.4 million and the add-back of US\$729.9 million in depreciation and amortization, partially offset by an increase of US\$100.9 million in trade and other receivables. The cash inflow was mainly generated from selling goods and rendering services, and the cash outflow was mainly for the purchase of goods and services and for payment made to and on behalf of employees. The increase in net cash generated from operating activities is mainly due to the increase in sales of goods in 2016.

As of December 31, 2015, we had US\$1,005.2 million in cash and cash equivalents. These cash and cash equivalents were held in the form of United States dollars, Japanese Yen, Euros, and Renminbi. Our net cash generated from operating activities in 2015 was US\$669.2 million, which was primarily due to the net profit of US\$222.3 million and the add-back of US\$523.5 million in depreciation and amortization, partially offset by an increase of US\$57.9 million in inventories.

The majority of our cash and cash equivalents were held by our PRC subsidiaries in the form of United States dollars.

#### Investing Activities

Our net cash used in investing activities was US\$2,662.1 million, US\$2,443.3 million and US\$789.6 million in 2017, 2016 and 2015, respectively. These amounts were primarily attributable to purchases of plant and equipment for our fabs in Shanghai, Beijing, Tianjin, Shenzhen and Jiangyin.

## Financing Activities

Our net cash from financing activities in 2017 was US\$1,271.6 million. This was primarily derived from US\$1,194.7 million in the proceeds from borrowings, US\$326.4 million in the proceeds from issuance of ordinary shares, US\$64.4 million in the proceeds from issuance of perpetual subordinated convertible securities, and US\$294.0 million in the capital contribution from non-controlling interest shareholders, which was partially offset by US\$537.0 million in the repayment of borrowings and by US\$87.9 million in the repayment of short-term notes.

Our net cash from financing activities in 2016 was US\$2,614.8 million. This was primarily derived from US\$1,239.3 million in the proceeds from borrowings, US\$441.2 million in the proceeds from issuance of convertible bonds, US\$314.4 million in the proceeds from issuance of short-term and medium-term notes and US\$831.3 million in the capital contribution from non-controlling interest shareholders, which was partially offset by US\$228.9 million in the repayment of borrowings.

Our net cash from financing activities in 2015 was US\$537.1 million. This was primarily derived from US\$341.2 million in the proceeds from borrowings, US\$508.8 million in the proceeds from issuance of ordinary shares and US\$132.1 million in the capital contribution from non-controlling interest shareholders, which was partially offset by US\$453.7 million in the repayment of borrowings.

## Capital Expenditures

We incurred capital expenditures of US\$1,572.7 million, US\$2,694.7 million and US\$2,487.9 million in 2015, 2016 and 2017, respectively. We currently expect our capital expenditures in 2018 for foundry operations to be approximately US\$1.9 billion, subject to adjustment based on market conditions, which are mainly for 1) the expansion of capacity in our majority-owned Beijing 300mm fab, Beijing 300mm fab, Shanghai 200mm fab, Shanghai 300mm fab and Jiangyin Bumping fab, 2) our new project in Tianjin, 3) a majority-owned subsidiary, which we expect will focus on research and development on 14nm FinFET technology, 4) enhancing our portfolio of comprehensive foundry solutions available to our customers, and 5) research and development equipment, mask shops and intellectual property acquisition.

The construction in progress balance of approximately US\$1,834.0 million as of December 31, 2017, primarily consisted of US\$753.0 million used for purchasing the manufacturing equipment acquired for further expanding the production capacity at two 300mm fabs in Beijing, US\$186.1 million used for purchasing the manufacturing equipment acquired for further expanding the production capacity at the 300mm fab in Shanghai and the investment of a new Shanghai project, US\$601.4 million used for our new 300mm fab in Shenzhen, US\$125.1 million used for expanding the production capacity at the 200mm fab in Tianjin and the investment of a new Tianjin project, and US\$101.8 million used for purchasing machinery and equipment acquired for more research and development activities at the subsidiary for the new technology research and development in Shanghai. In addition, US\$66.6 million was related to various ongoing capital expenditures projects of other SMIC subsidiaries, which are expected to be completed by the end of 2018.

Any transfer of funds from our company to our Chinese subsidiaries, either as a shareholder loan or as an increase in registered capital, is subject to registration or approval of Chinese governmental authorities, including the relevant administration of foreign exchange and/or the relevant examining and approval authority. In addition, it is not permitted under Chinese law for our Chinese subsidiaries to directly lend money to each other. Therefore, it is difficult to change our capital expenditure plans once the relevant funds have been remitted from our company to our Chinese subsidiaries. These limitations on the free flow of funds between us and our Chinese subsidiaries could

restrict our ability to act in response to changing market conditions and reallocate funds from one Chinese subsidiary to another in a timely manner.

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## Commitments

As of December 31, 2017, we had commitments of US\$484.5 million for facilities construction obligations in connection with our Shanghai, Beijing, Tianjin, Shenzhen and Jiangyin facilities. We had commitments of US\$476.1 million to purchase machinery and equipment for our Shanghai, Beijing, Tianjin, Shenzhen and Jiangyin fabs. We had US\$5.6 million to purchase intellectual property. In addition, we had commitments for a total future minimum lease payments of US\$294.9 million under the non-cancellable operating leases. We anticipate that the cash on hands, cash flows from operations in 2018, the proceeds from new loans, new ordinary shares and perpetual subordinated convertible securities issued, the capital contribution from non-controlling interest shareholders and other necessary external financing will be sufficient to finance the commitments. For additional information, see “Item 5.A — Operating and Financial Review and Prospects — Operating Results”.

## Bank Borrowing

As of December 31, 2017, our outstanding long-term loans primarily consisted of secured bank loans of US\$532.9 million and unsecured bank loans of US\$1,343.3 million, which are repayable in installments starting in January 2018, with the last payment due in December 2030.

### 2013 USD Loan (SMIC Shanghai)

In August 2013, SMIS entered into a loan facility in the aggregate principal amount of US\$470.0 million with a syndicate of financial institutions based in the PRC. This seven-year bank facility was used to finance the planned expansion for SMIS’ 300mm fab. The facility is secured by the manufacturing equipment located in the SMIS’ 300mm fab. As of December 31, 2017, SMIS had drawn down US\$260.0 million and repaid US\$249.2 million on this loan facility. The outstanding balance of US\$10.8 million is repayable in advance from February 2018 to August 2018. The interest rate on this loan facility ranged from 5.03% to 5.71% in 2017. SMIS was in compliance with the related financial covenants as of December 31, 2017.

### 2015 CDB RMB Loan I (SMIC Shanghai)

In December 2015, SMIS entered into a loan facility in the aggregate principal amount of RMB1,000.0 million with China Development Bank, which is guaranteed by SMIC. This fifteen-year bank facility was used for new SMIS’ 300mm fab. As of December 31, 2017, SMIS had drawn down RMB1,000.0 million (approximately US\$153.0 million) on this loan facility. The outstanding balance is repayable from November 2021 to November 2030. The interest rate on this loan facility was 1.20% in 2017.

### 2015 RMB Loan II (SMIC Shanghai)

In December 2015, SMIS entered into a loan facility in the aggregate principal amount of RMB475 million with China Development Bank, which is guaranteed by SMIC. This ten-year bank facility was used to expand the capacity of SMIS’ 300mm fab. As of December 31, 2017, SMIS had drawn down RMB475.0 million (approximately US\$72.7 million) on this loan facility. The outstanding balance is repayable from December 2018 to December 2025. The interest rate on this loan facility was 1.20% in 2017.

### 2015 EXIM RMB Loan (SMIC Shanghai)

In December 2015, SMIS entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIS had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable in December 2018. The interest rate on this loan facility was 2.65% in 2017.

#### 2017 EXIM RMB Loan (SMIC Shanghai)

In March 2017, SMIS entered into a loan facility in the aggregate principal amount of RMB1,000.0 million with The Export-Import Bank of China, which is unsecured. This two-year bank facility was used for working capital purposes. As of December 31, 2017, SMIS had drawn down RMB1,000.0 million (approximately US\$153.0 million) on this loan facility. The outstanding balance is repayable in March and April 2019. The interest rate on this loan facility is 2.65% per annum in 2017.

#### 2015 CDB RMB Loan (SMIC Beijing)

In December 2015, SMIB entered into an RMB loan, a fifteen-year working capital loan facility in the principal amount of RMB195.0 million with China Development Bank, which is unsecured. As of December 31, 2017, SMIB had drawn down RMB195.0 million and repaid RMB4.0 million on this loan facility. The outstanding balance of RMB191.0 million (approximately US\$29.2 million) is repayable from June 2018 to December 2030. The interest rate on this loan facility was 1.20% in 2017.

#### 2016 CDB RMB Loan (SMIC Beijing)

In May 2016, SMIB entered into the RMB loan, a fifteen-year working capital loan facility in the principal amount of RMB1,460.0 million with China Development Bank, which is guaranteed by SMIC. As of December 31, 2017, SMIB had drawn down RMB1,460.0 million (approximately US\$223.4 million) on this loan facility. The outstanding balance is repayable from May 2018 to May 2031. The interest rate on this loan facility was 1.20% in 2017.

#### 2016 EXIM RMB Loan I (SMIC Beijing)

In December 2016, SMIB entered into the RMB loan, a two-year working capital loan facility in the principal amount of RMB240.0 million with The Export-Import Bank of China, which is unsecured. This two-year bank facility was used for working capital purposes. As of December 31, 2017, SMIB had drawn down RMB240.0 million (approximately US\$36.7 million) on this loan facility. The outstanding balance is repayable in December 2018. The interest rate on this loan facility was 2.65% in 2017.

#### 2016 EXIM RMB Loan II (SMIC Beijing)

In January 2016, SMIB entered into the RMB loan, a three-year working capital loan facility in the principal amount of RMB400.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIB had drawn down RMB400.0 million (approximately US\$61.2 million) on this loan facility. The outstanding balance is repayable in January 2019. The interest rate on this loan facility was 2.65% in 2017.

#### 2017 EXIM RMB Loan (SMIC Beijing)

In September 2017, SMIB entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This five-year bank facility was used for SMIB's 300mm fab. As of December 31, 2017, SMIB had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable from September 2018 to September 2022. The interest rate on this loan facility is 2.92% per annum in 2017.



#### 2016 EXIM RMB Loan (SMIC)

In May 2016, SMIC entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIC had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable in May 2019. The interest rate on this loan facility ranged from 2.75% to 3.05% in 2017.

#### 2017 EXIM RMB Loan (SMIC Tianjin)

In February 2017, SMIT entered into a new RMB loan, a three-year working capital loan facility in the principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIT had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable in February 2020. The interest rate on this loan facility is 4.04% per annum in 2017.

#### 2017 EXIM USD Loan (SMIC Tianjin)

In August 2017, SMIT entered into a loan facility in the aggregate principal amount of US\$25.0 million with The Export-Import Bank of China, which is unsecured. This five-year bank facility was used for SMIT's 200mm fab. As of December 31, 2017, SMIT had drawn down US\$25.0 million on this loan facility. The outstanding balance is repayable in August 2022. The interest rate on this loan facility is 2.65% per annum in 2017.

#### 2017 CDB RMB Loan (SMIC Shenzhen)

In December 2017, SMIZ entered into a loan facility in the aggregate principal amount of RMB5,400.0 million with China Development Bank, which is unsecured. This seven-year bank facility was used to finance the planned expansion for SMIZ's 300mm fab. As of December 31, 2017, SMIZ had drawn down RMB1,214.0 million (approximately US\$185.8 million) on this loan facility. The outstanding balance is repayable from December 2019 to December 2024. The interest rate on this loan facility is 4.46% per annum in 2017.

#### 2017 EXIM RMB Loan (SMIC Shenzhen)

In December 2017, SMIZ entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This five-year bank facility was used to finance the planned expansion for SMIZ's 300mm fab. As of December 31, 2017, SMIZ had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable from March 2018 to September 2022. The interest rate on this loan facility is 3.40% per annum in 2017.

#### 2014 Cassa Depositie Prestiti loan (LFoundry)

In January 2014, LFoundry entered into a loan facility in the aggregate principal amount of EUR35.8 million with Cassa Depositie Prestiti. This ten-year bank facility was in relation to the admission of LFoundry to the benefits of the technology innovation fund. The facility is secured by bank deposits of EUR14.3 million and the manufacturing equipment located in LFoundry's 200mm fab. As of December 31, 2017, LFoundry had drawn down EUR35.8 million and repaid EUR11.8 million on this loan facility. The outstanding balance of EUR24.4 million (its present value is EUR21.5 million, approximately US\$25.9 million) including principal amount of EUR24.0 million and interest cash

flow of EURO.4 million is repayable from December 2017 to December 2023. The interest rate on this loan facility is 0.5% per annum in 2017.

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#### 2014 MPS Capital Service loan (LFoundry)

In January 2014, LFoundry entered into a loan facility in the aggregate principal amount of EUR4.0 million with MPS Capital Service. This ten-year bank facility was in relation to the admission of LFoundry to the benefits of the technology innovation fund. The facility is secured by bank deposits of EUR1.6 million and the manufacturing equipment located in LFoundry's 200mm fab. As of December 31, 2017, LFoundry had drawn down EUR4.0 million on this loan facility. The outstanding balance of EUR4.8 million (its present value is EUR4.2 million, approximately US\$5.1 million) including principal amount of EUR4.0 million and interest cash flow of EUR0.8 million is repayable from June 2020 to December 2023. The interest rate on this loan facility is approximately 6% per annum in 2017.

#### 2014 Citizen Finetech Miyota Loan (LFoundry)

In June 2014, LFoundry entered into a loan facility in the aggregate principal amount of JPY 480.0 million with Citizen Finetech Miyota Co. Ltd. This five-year facility was used to finance the expansion of LFoundry's 200mm fab. The facility is secured by the manufacturing equipment located in LFoundry's 200mm fab. As of December 31, 2017, LFoundry had drawn down JPY480.0 million on this loan facility and repaid JPY58.0 million. The outstanding balance of JPY439.0 million (its present value is JPY406.0 million, approximately US\$3.5 million) including principal amount of JPY422.0 million and interest cash flow of JPY17.0 million is repayable from December 2017 to December 2019. The interest rate on this loan facility is 4.04% per annum in 2017.

#### 2017 Banca del Mezzogiorno Loan (LFoundry)

In June 2017, LFoundry entered into a soft loan facility in the aggregate principal amount of EUR1.2 million with Banca del Mezzogiorno, which is unsecured. This nine-year facility was in relation to the admission of LFoundry to the benefits of the European Project called Horizon. As of December 31, 2017, LFoundry had drawn down EUR1.2 million (approximately US\$1.5 million) on this loan facility. The principal amount is repayable from December 2018 to June 2026. The interest rate on this loan facility is 0.8% per annum in 2017.

#### Finance Lease Payables

In 2016, a leasing contract entered into by the Group with one of its suppliers for the construction and installation of gas generation equipment. This transaction was accounted for a finance leasing with remaining lease term of five years. As at December 31, 2017, the total net finance lease payables were US\$6.3 million.

#### Loans from non-controlling interests shareholders

In 2016, LFoundry entered into a loan facility in the aggregate principal amount of EUR15.0 million with non-controlling interests shareholders of LFoundry. This seven-year facility was in relation to the construction of the new co-generation. LFoundry had drawn down EUR10.6 million on this loan facility. The outstanding balance of EUR10.6 million (approximately US\$12.7 million) is repayable from September 2018 to December 2023. The interest rate on this loan facility was 3.5% in 2017.

#### Sales and Leaseback Borrowings

As of December 31, 2017, the three arrangements of sales and leaseback borrowings amounted to US\$487.7 million (December 31, 2016: US\$482.6 million) which were entered into by the Group and third-party financing companies in 2016 in the form of a sale and leaseback transaction with a repurchase option. A batch of production equipment of the

Group was sold and leased back under the arrangements. As the repurchase prices are set at below US\$1.00, which are minimal compared to the expected fair value and the Group is certain that it will exercise the repurchase options, the above arrangements were accounted for as collateralized borrowings of the Group.



### Short-term Credit Agreements

As of December 31, 2017, the Group had 34 short-term credit agreements that provided total credit facilities up to US\$2,118.5 million on a revolving credit basis. As of December 31, 2017, the Group had drawn down US\$308.3 million under these credit agreements. The outstanding borrowings under these credit agreements are unsecured. The interest rate on this loan facility ranged from 0.98% to 3.48% in 2017.

Please see “Item 8.A — Financial Information- Consolidated Statements and Other Financial Information — Dividends and Dividend Policy” on our ability to pay dividends on our ordinary shares.

Please see “Item 11 — Quantitative and Qualitative Disclosures About Market Risk” regarding the risk of loss related to adverse changes in market prices, including foreign currency exchange rates and interest rates of financial instruments.

### C. Research and Development, Patents and Licenses, etc.

Our research and development activities are principally directed toward the development and implementation of new process technology. We spent US\$237.2 million, US\$318.2 million and US\$427.1 million, respectively in 2015, 2016 and 2017 on research and development expenses, which represented 13.8%, 10.9% and 10.9%, respectively, of our sales in those respective years. Our research and development costs were partially offset by related government fundings of US\$34.3 million, US\$52.5 million and US\$82.2 million in 2015, 2016 and 2017, respectively, and included the costs associated with the ramp-up of a new wafer facility. We plan to continue to invest significant amounts in research and development in 2018.

We primarily focus our R&D efforts on advanced logic and value-added specialty technologies, addressing 0.35 micron to 14 nanometer.

In 2017, we achieved key milestones in 14nm R&D development, which included establishing 14nm device performance, SRAM yield, logic yield, and process qualification using various vehicles. In addition, till the end of 2017, we were among the world’s top 5 assignees in patent filing for FinFET related technologies.

We continue to invest in a variety of specialty mature platforms with enhanced ultra-low power features, including embedded nonvolatile memory and power management, segment. These are suitable to address future business opportunities in the IoT, cloud computing, artificial intelligence, smart automobiles, and other growing segments.

We have also worked to enhance its R&D organizational structure in 2017, resulting in expanded capability, high efficiency, and increased resource allocation for accelerating technology developments, including advanced and specialty technologies.

As of December 31, 2017, we had been granted 7,713 patents worldwide, of which, 70 were in Taiwan, 954 were in the U.S., 6,665 were in China, and 24 were in other jurisdictions.

### D. Trend Information

See “Item 5.A — Operating and Financial Review and Prospects — Operating Results — Factors that Impact Our Results of Operations” for a discussion of the most significant recent trends affecting our operations.

E. Off-Balance Sheet Arrangements

We have not entered into any off-balance sheet transactions.

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## F. Tabular Disclosure of Contractual Obligations

Set forth in the table below are the aggregate amounts, as of December 31, 2017, of our future cash payment obligations (excluding estimated interest payment obligations) under our existing contractual arrangements on a consolidated basis:

	Payments due by period (consolidated, in US\$ thousands)				
	Total	Less than 1 year	1 – 2 years	2 – 5 years	Over 5 years
Contractual obligations					
Short-Term Borrowings(1)	308,311	308,311	—	—	—
Long-Term Borrowings(1)	1,876,236	132,297	399,301	877,315	467,323
Convertible bonds	403,329	—	—	403,329	—
Bonds payable	496,689	—	496,689	—	—
Medium-term notes	228,483	—	228,483	—	—
Purchase Obligations(2)	966,196	966,196	—	—	—
Lease Obligations(3)	294,865	91,181	203,684	—	—
Total Contractual Obligations	4,574,109	1,497,985	1,328,157	1,280,644	467,323

(1) These amounts represent outstanding borrowings. Refer to F 74, “Borrowings” for a description of the short-term and long-term borrowings.

(2) These amounts represent commitments for construction or purchase of semiconductor equipment, and other property or services.

(3) These amounts represent commitments for non-cancellable operating leases of equipment.

(4) Please refer to F 98, “Financial instruments” for our non-derivative financial liabilities with both estimated interest and principal.

## Item 6. Directors, Senior Management and Employees

## A. Directors and Senior Management

Members of our Board are elected by our shareholders. As of March 31, 2018, our Board consists of fifteen directors.

The composition of the Board during the year ended December 31, 2017 and up to the date of this report is set forth as follows:

Name	Age	Position
Directors		
Zhou Zixue	61	Chairman, Executive Director
Zhao HaiJun	54	Co-Chief Executive Officer, Executive Director
Liang Mong Song	65	(Appointed on May 10, 2017 and October 16, 2017 respectively) Co-Chief Executive Officer, Executive Director
Gao Yonggang	53	(Appointed on October 16, 2017) Executive Director, Chief Financial Officer, Executive Vice President, and Joint Company Secretary
Tzu-Yin Chiu	61	Vice Chairman, Non-executive Director (Appointed on May 11, 2017 and Resigned on May 11, 2017 respectively )
Chen Shanzhi	49	Non-executive Director
Zhou Jie	50	Non-executive Director
Ren Kai	45	Non-executive Director
Lu Jun	49	Non-executive Director
Tong Guohua	60	Non-executive Director
Lip-Bu Tan	58	(Appointed on February 14, 2017) Independent Non-executive Director
William Tudor Brown	59	Independent Non-executive Director
Carmen I-Hua Chang	70	Independent Non-executive Director
Shang-Yi Chiang	71	Independent Non-executive Director
Jason Jingsheng Cong	55	Independent Non-executive Director
Senior Management		(Appointed on February 14, 2017)
Zhao HaiJun	54	Co-Chief Executive Officer and Executive Director
Liang Mong Song	65	(Appointed on May 10, 2017 and October 16, 2017 respectively) Co-Chief Executive Officer and Executive Director
Gao Yonggang	53	(Appointed on October 16, 2017) Executive Director, Chief Financial Officer, Executive Vice President, and Joint Company Secretary
Liu Jyishyang	65	Executive Vice President, Engineering & Services
Li Zhi	54	(Retired on December 31, 2017) Executive Vice President, Legal/Public Affairs/General Administration

Mike Rekuc	69	Executive Vice President, Worldwide Sales & Marketing  (Retired on December 31, 2017)
Tang Tianshen	61	Executive Vice President, Design Service  (Retired on February 1, 2018)
Zhou Meisheng	59	Executive Vice President, Technology Research and Development  (Appointed on October 12, 2017)
Gareth Kung	53	Executive Vice President, Investment and Strategic Business Development and Finance; and Company Secretary  (Resigned in July, 2017)

Datang Telecom Technology & Industry Holdings Co., Ltd. (“Datang Holdings”), has the right to nominate two members of our board of directors pursuant to the Share Purchase Agreement between us and Datang Holdings dated November 6, 2008 Xinxin (Hongkong) Capital Co., Ltd., a wholly-owned subsidiary of China IC Fund, has the right to nominate one member of our board of directors pursuant to the Share Subscription Agreement between us and China IC Fund dated February 12, 2015. Save as disclosed above, no other shareholder has a contractual right to designate a person to be elected to our board of directors.

There are no family relationships among any of our directors and executive officers.

Board of Directors

Zhou Zixue

Chairman of the Board, Executive Director

Dr. Zhou Zixue joined the company on 6th March 2015 as an executive director and Chairman of the Board. Dr. Zhou received a Master of Management degree from the University of Science and Technology of China, and a Doctor of Economics degree from the Central China Normal University. Dr. Zhou has more than 30 years of experience in the economic operation, regulation and management of industry and information technology. Prior to his current employment, Dr. Zhou served as the Chief Economist and the Director of Finance of the Ministry of Industry and Information Technology. Prior to that, he worked in several divisions in the Ministry of Information Industry, the Ministry of Electronics Industry, the Ministry of Machinery and Electronics Industry, and the state owned DongGuangDian Factory. Dr. Zhou is currently the Vice Chairman and Secretary General of the China Information Technology Industry Federation, the Chairman of the China Semiconductor Industry Association, an independent director of the Nantian Electronics Information Co., Ltd (a company listed on Shenzhen Stock Exchange: 000948), an independent director of the Hisense Electric Co., Ltd (a company listed on Shanghai Stock Exchange: 600060). Dr. Zhou also serves as a director of certain subsidiaries of the Company..

Zhao HaiJun

Co-Chief Executive Officer, Executive Director

Dr. Zhao HaiJun became an Executive Director of the Company on October 16, 2017, and Chief Executive Officer of the Company on May 10, 2017 and redesignated as Co-Chief Executive Officer on October 16, 2017. Dr. Zhao joined the Company in October 2010 and was appointed as Chief Operating Officer and Executive Vice President in April 2013. In July 2013, Dr. Zhao was appointed as General Manager of Semiconductor Manufacturing North China (Beijing) Corporation, a joint venture company established in Beijing and a subsidiary of the Company. Dr. Zhao received his degree in Bachelor of Science and Doctor of Philosophy in Electronic Engineering from Tsinghua University (Beijing) and master's degree in Business Administration from the University of Chicago. He has 25 years of experience in semiconductor operations and technology development. Dr. Zhao has also served as an independent director on the board of directors of Zhejiang Juhua Co., Ltd. (Stock Code: 600160), a company which is listed on the Shanghai Stock Exchange, since November 2016. Dr. Zhao also serves as a director of certain subsidiaries of the Company.

Liang Mong Song

Co-Chief Executive Officer, Executive Director

Dr. Liang Mong Song became the Executive Director and Co-Chief Executive Officer of the Company on October 16, 2017. Dr. Liang graduated with a doctor of philosophy degree in electrical engineering from the Department of Electrical Engineering and Computer Sciences at University of California, Berkeley. Dr. Liang has been engaged in the semiconductor industry for over 33 years. Dr. Liang held senior director position on research and development in

Taiwan Semiconductor Manufacturing Company Limited between 1992 and 2009. Dr. Liang was involved in memories and advanced logic process technology developments. Dr. Liang owns over 450 patents and has published over 350 technical papers. He is a Fellow of Institute of Electrical and Electronics Engineers (IEEE).

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Gao Yonggang

Executive Director, Chief Financial Officer, Executive Vice President, and Joint Company Secretary

Dr. Gao Yonggang, a non-executive Director since 2009, was appointed as Executive Vice President, Strategic Planning of the Company and re-designated as an executive Director on June 17, 2013. He has been appointed as the Chief Financial Officer of the Company since February 17, 2014 and was further appointed as the Joint Company Secretary on July 3, 2017. Dr. Gao is a director of certain subsidiaries of the Company. Dr. Gao has more than 30 years of experience in the area of financial management and has worked as Chief Financial Officer or person in charge of finance in various industries, including commercial, industrial, and municipal utilities, and in various types of organizations, including state-owned enterprises, private companies, joint ventures, and government agencies.

Dr. Gao was the Chief Financial Officer of the China Academy of Telecommunications Technology (Datang Telecom Technology & Industry Group), the chairman of Datang Capital (Beijing) Co., Ltd. and Datang Telecom Group Finance Co., Ltd., and an executive director of Datang Hi-Tech Venture Capital Investment Co., Ltd. He was also a director and the Senior Vice President of Datang Telecom Technology & Industry Holdings Co., Ltd.. Dr. Gao is a standing committee member of Accounting Society of China, standing director of Enterprise Financial Management Association of China. Dr. Gao graduated from Nankai University with a Ph.D. in management. He has conducted studies in the field of financial investment, and has been involved in a number of key research projects and publications in this area. Dr. Gao is also a Fellow of the Institute of Chartered Accountants in Australia. Founding Member, director of The Hong Kong Independent Non-Executive Director Association.

Tzu-Yin Chiu

Vice chairman of the Board, Non-Executive Director

Dr. Tzu-Yin Chiu has over 35 years' experience in the semiconductor industry and a track record of successfully turning around semiconductor manufacturing companies at the executive level. Dr. Chiu's expertise spans technology research, business development, operations and corporate management. Dr. Chiu earned his bachelor's degree in electrical and systems engineering at Rensselaer Polytechnic Institute in New York, and his doctorate in electrical engineering and computer science at the University of California, Berkeley. He has also earned an executive MBA degree from Columbia University in New York. Dr. Chiu returned to SMIC in August 2011 as CEO and Executive Director. Dr. Chiu was Vice Council Chairman of China Semiconductor Industry Association (CSIA) and a board member of Global Semiconductor Alliance (GSA). In 2015, Dr. Chiu was awarded Shanghai Magnolia Award by the Shanghai Municipal Government. In May 2017 Dr. Chiu resigned from the role of SMIC CEO, and now serves as SMIC Vice Chairman and Non-Executive Director. Dr. Chiu is also one of the global experts of "the Thousand Talents Plan" initiated by China, and a member of the Engineering Advisory Board of University of California, Berkeley.

Chen Shanzhi

Non-executive Director

Dr. Chen Shanzhi has been a non-executive Director since 2009. Dr. Chen is the deputy general manager of Telecommunication Science and Technology Research Institute Limited (Datang Telecom Technology industry Group), where he is responsible for strategy development, technology and standards development, corporate IT, strategic alliances and cooperation, investment budget management, and external Industrial Investment. Dr. Chen received his bachelor's degree from Xidian University, his master's degree from the China Academy of Posts and



Telecommunications of the Ministry of Posts and Telecommunications, and his Ph.D. from Beijing University of Posts and Telecommunications. Dr. Chen has 20 years of experience in the field of information and communication technology, during which he has been involved in research and development, technology and strategy management. Dr. Chen has made major contributions in the core technology breakthroughs, international standard formulation and industrialization of China's leading TD-LTE-Advanced 4G technology. Currently he is in charge of 5G technology and standard research and industrialization work.

Dr. Chen is currently the director of State Key Laboratory of Wireless Mobile Communication, the Expert Advisory Group member of National Science and Technology Platform, the chairman of Chinese high-tech Industrialization Association for Information Technology Committee, a director of The Chinese Institute of Electronics, an executive director of China Institute of Communications, a director of China Communications Standards Association (CCSA) and a senior member of IEEE. Dr. Chen was a member of the IT Experts Panel of the National 863 Program and a member of the Programming Group of the major project of “The New-generation Broadband Wireless Mobile Communications Network”.

Dr. Chen has five publications, three of which were published by the Springer in English. He has more than 150 papers in domestic and foreign academic conferences and publications, of which more than 70 were published by SCI. Many of his papers have received awards. At present, he has applied for more than 20 national invention patents, some of the patents are included in 3GPP and ITU international standards, which have become the mandatory standard patents and been successfully applied in the global 4G commercial network and China’s high-speed railway communications coverage, etc.

Dr. Chen received the Grand Prize for National Science and Technology Progress Award China in 2016, the second prize for the State Award for Technological Invention China in 2015, the first prize for the 2012 National Science and Technology Progress Award, the second prize for the 2001 National Science and Technology Progress Award, 2017 Ho Leung Ho Lee Foundation Science and Technology Innovation Award, the Ninth Guanghua Engineering Science and Technology Award, the first prize for the 2012 China Institute of Communications Science and Technology Award and the first prize for the 2009 National Enterprise Management Modernization Innovation Achievement Award and other honors.

Zhou Jie

Non-Executive Director

Mr. Zhou Jie has been Director since 2009. Mr. Zhou is executive director of Haitong Securities Co., Ltd. (listed on the Shanghai Stock Exchange under the stock code of 600837; listed on the Hong Kong Stock Exchange under the stock code of 6837). From February 1992 to June 1996, Mr. Zhou served in the investment banking department of Shanghai Wanguo Holdings Ltd. From June 1996 to December 2001, Mr. Zhou served, successively, as the manager of investment department, the vice general manager, and the chairman of the board of directors and the general manager of Shanghai SIIC Asset Management Co., Ltd. From December 2001 to April 2003, he was the director and general manager of SIIC Medical Science and Technology (Group) Limited. From January 2002 to July 2016, he acted, successively, as the executive director and the vice executive officer, the executive director and the executive vice president, the vice chairman and chief executive officer of Shanghai Industrial Holdings Limited (listed on the Hong Kong Stock Exchange under the stock code of 0363). From August 2004 to July 2016, he was the chief planning officer, the executive director and vice president, the executive director and executive vice president, and the president and secretary of CPC committee of SIIC Shanghai (Holding) Co., Ltd. From March 2010 to May 2012, he was the chairman of the supervisory committee of Shanghai Pharmaceuticals Holding Co., Ltd. (listed on the Shanghai Stock Exchange under the stock code of 601607; listed on the Hong Kong Stock Exchange under the stock code of 2607), of which he was the chairman of the board of directors and the secretary of CPC committee from Jun 2012 to June 2013 and from May 2016 to July 2016. Mr. Zhou was graduated from the College of Management of Shanghai Jiao Tong University majoring in the management engineering with a master’s degree of engineering in February 1992.



Ren Kai

Non-Executive Director

Mr. Ren Kai became a Director of the Company on August 11, 2015, received a bachelor degree in industry and international trade from Harbin Engineering University. Since September 2014, Mr. Ren has been serving as the Vice President of Sino IC Capital. From October 2007 to August 2014, he had served as the Director of the Review Board 4 of the Review Bureau 2 of China Development Bank. From October 2004 to December 2007, Mr. Ren served as a Deputy Director of each of the Review Board 3 and the Review Board 4 of the Review Bureau 2 of China Development Bank. From July 1995 to October 2004, Mr. Ren had worked in the Electromechanical Textile Credit Bureau, Chengdu representative office, the Review Bureau 4, the Review Bureau 3 and the Review Bureau 2 of China Development Bank. Mr. Ren has been engaged in loan review programs and investment operations in the fields of equipment and electronics; he is familiar with industrial policies and has in-depth understanding in integrated circuit and related industries. Mr. Ren had gained extensive experience in investment management while he was working in the Review Board 2 of China Development Bank as he led the team to complete the review of hundreds of major projects with annual review commitments of over RMB100 billion and accumulative review commitments of over RMB30 billion in the field of integrated circuit. Mr. Ren is also the director of SJ Semiconductor (Jiangyin) Corporation.

Lu Jun

Non-Executive Director

Mr. Lu Jun became a Director of the Company on February 18, 2016, received the Master of Business Administration from Nanjing University and holding a bachelor degree in Shipping and Marine engineering from Hohai University. Since August 2014, in addition to serve as President of Sino IC-Capital Co., Ltd, he is also the Chairman of Sino IC-Leasing Co., Ltd. Since May 2010, Mr. Lu has been serving as Executive Vice President of China Development Bank Capital Co., Ltd (China Development Bank Capital Co., Ltd, a wholly-owned subsidiary of China Development Bank Co., Ltd, has been so far the only large-scale agency in China's banking industry for RMB equity investment, and has formed an integrated platform for strategic investments domestically and internationally). Previously, Mr. Lu has been worked for China Development Bank for more than 20 years and accumulated plentiful experience in credit, industry investment and fund investment. As Mr. Lu has been engaged in loan review programs and investment operations in the fields of equipment and electronics, he is familiar with industrial policies and has in-depth understanding in integrated circuit and related industries. From July 2007 to May 2010, Mr. Lu had served as the Deputy Director of China Development Bank Shanghai Branch. From April 2006 to July 2007, Mr. Lu served as the Director of industrial integration innovation of Investment business bureau of China Development Bank. From April 2003 to April 2006, Mr. Lu served as the Director of each of the Review Board of China Development Bank Jiangsu Branch and Nanjing Branch. From September 2002 to April 2003, Mr. Lu served as the Director of the Review Board of China Development Bank Nanjing Branch. From March 1994 to September 2002, Mr. Lu had worked in Traffic credit bureau, East China credit bureau, finance department of Nanjing Branch, and the Review Bureau 2 of Nanjing Branch of China Development Bank.

Tong Guohua

Non-Executive Director

Dr. Tong Guohua became a Director of the Company on February 14, 2017. Dr. Tong is a professorate senior engineer and doctoral tutor of the School of Public Administration of Huazhong University of Science and Technology. Dr. Tong became President and Secretary of Party of China Academy of Telecommunications Technology as well as Executive Director and President of Datang Telecom Technology & Industry Holdings Co., Ltd. in June 2016. Since December 2017, he served as the Chairman, General Manager and Secretary of Party of China Academy of Telecommunications Technology Co., Ltd as well as Executive Director and President of Datang Telecom Technology & Industry Holdings Co., Ltd. He began working in August 1974 and was President and Secretary of Party of Wuhan Institute of Posts and Telecommunications from November 2004.

Dr. Tong has been elected as a “National Model Worker” and he was the representative of the eleventh and twelfth National People’s Congress, and member of the thirteenth CPPCC National Committee. Dr. Tong was awarded the title “Young Experts with Outstanding Contributions of Hubei Province” in 2004. In 2006, he was awarded as one of the “Top Ten Outstanding Entrepreneurs in the Brand Building of China”, “Outstanding Employee Representative of Hubei Province” and “Entrepreneur with Outstanding Contribution of Wuhan City”. In 2007, Dr. Tong was named “China’s Information Industry Person of the Year” and awarded as a “Person with Outstanding Contribution in Brand Building of Wuhan Region”. In 2008, he was awarded “Innovative Economic Contribution Prize of Hubei Province” and he was named one of the “Top 10 Most Important People in the 30 Years’ Reform and Development of State-owned Enterprises of Hubei Province”. In 2009, he was named as an “Outstanding Entrepreneur of Wuhan City.”

Dr. Tong graduated from Wuhan University in 1982 with a bachelor’s degree in chemistry. He received a master’s degree in science and technology management from Fudan University in 1990. In 2002, he received his doctoral degree in management science and engineering from Huazhong University of Science and Technology.

Lip-Bu Tan

Independent Non-Executive Director

Mr. Lip-Bu Tan has been a Director of the Company since 2001. Mr. Tan is the Founder and Chairman of Walden International, a leading venture capital firm managing over US\$2.0 billion in committed capital. He concurrently serves as President and Chief Executive Officer of Cadence Design Systems, Inc., and has been a member of the Cadence Board of Directors since 2004. He also serves on the boards of Hewlett Packard Enterprise, Quantenna Communications, Inc, Aquantia Corp., the Global Semiconductor Alliance and several other private companies. Mr. Tan received his B.S. from Nanyang University in Singapore, his MBA from the University of San Francisco, and his M.S. in nuclear engineering from the Massachusetts Institute of Technology.

William Tudor Brown

Independent Non-Executive Director

Mr. William Tudor Brown has been a Director of the Company since 2013. He is a Chartered Engineer, a Fellow of the Institution of Engineering and Technology and a Fellow of the Royal Academy of Engineering. He holds a MA (Cantab) Degree in Electrical Sciences from Cambridge University. Mr. Brown was one of the founders of ARM Holdings plc, a British multinational semiconductor and software design company listed on London Stock Exchange and NASDAQ. In ARM Holdings plc, he served as President during the period from July 2008 to May 2012. His previous roles include Engineering Director and Chief Technology Officer, EVP Global Development and Chief Operating Officer. He had responsibility for developing high-level relationships with industry partners and governmental agencies and for regional development. Before joining ARM Holdings plc, Mr. Brown was Principal Engineer at Acorn Computers and worked exclusively on the ARM R&D program since 1984. Mr. Brown served as a director at ARM Holdings plc from October 2001 to May 2012. He was also a director of ARM Ltd. From May 2005 to February 2013, he was a director of ANT Software PLC (a company listed on AIM of London Stock Exchange). Mr. Brown served on the UK Government Asia Task Force until May 2012. He sat on the advisory board of Annapurna Labs until the sale of the company in 2015. Currently Mr. Brown is a director and a member of the compensation committee and chair the nominations and governance committee at Xperi Corporation (previously named as Tessera Technologies, Inc.) (a company listed on NASDAQ). He is also an independent non-executive director and a member of each of the Audit Committee and the Compensation Committee of Lenovo Group Limited (a company listed on Main Board of The Stock Exchange of Hong Kong Limited) and an independent non-executive director and a member of the Compensation Committee of Marvell Technology Group (a company listed on NASDAQ).

Carmen I-Hua Chang

Independent Non-Executive Director

Ms. Carmen I-Hua Chang has been an independent non-executive Director of the Company since September 2014. Ms. Chang has been involved in seminal cross border transactions between China and the US including the earliest investments by Goldman Sachs in China Netcom and the key transactions of companies such as Lenovo, Foxconn, Google, Tencent, Netease, CEC, China Mobile, Spreadtrum and SMIC. In 2012, Ms. Chang joined New Enterprise Associates (NEA), a venture fund with over US\$14 billion dollars under management, where she serves as Partner and Managing Director, Asia (Ex-India). Prior to joining NEA, she was a partner at a Silicon Valley law firm, where she headed up its China practice. She is an affiliate of the Center for International Security and Cooperation at Stanford University — Stanford University's main research organization on international issues — as well as a fellow at the Stanford Business School and Stanford Law School's Rock Center for Corporate Governance. Ms. Chang also serves as an Independent Non-Executive Director of AAC Technologies Holdings Inc. (SEHK: 2018). Ms. Chang is also on the board of directors for Ruizhang Technologies, Airtake and Availink. Ms. Chang received a graduate degree in modern Chinese history from Stanford University and a Juris Doctor degree from Stanford Law School.

Shang-yi Chiang

Independent Non-Executive Director

Dr. Shang-Yi Chiang became a Director of the Company on December 20, 2016. During Dr. Chiang's 40-year career in the semiconductor industry, he has contributed to the research and development of CMOS, NMOS, Bipolar,

DMOS, SOS, SOI, GaAs lasers, LED, E-Beam lithography and silicon solar cells. At TSMC, Dr. Chiang led TSMC R&D team set milestones in semiconductor technology in the 0.25  $\mu$ m, 0.18  $\mu$ m, 0.15  $\mu$ m, 0.13  $\mu$ m, 90nm, 65nm, 40nm, 28nm, 20nm and 16nm FinFET generations, transformed TSMC from a technology follower to a technology leader. He worked at Texas Instruments and Hewlett-Packard after completing his study. Then, he returned to Taiwan in 1997 to serve as TSMC's Vice President of Research and Development. He was Co-Chief Operating Officer when he retired at the end of 2013. After that, Dr. Chiang served two more years as the Adviser to Chairman at TSMC.



Dr. Chiang's achievements have won many awards and honours. In 2001, he was chosen as one of the 50 "Stars of Asia" by Businessweek Magazine. This award recognizes the outstanding performance of TSMC's R&D team under his leadership, his vision and his determination. He was made a Life Fellow of the Institute of Electrical and Electronics Engineers (IEEE) in 2002. He received ERSO Award and was honoured as National Taiwan University Distinguished Alumni in 2013. He won IEEE Ernst Weber Managerial Leadership Award and was elected ITRI (Industrial Technology Research Institute) Laureate by the Taiwan Government in 2015.

Dr. Chiang has devoted his career to advancing the semiconductor technology and developing the semiconductor industry, and is a pioneer in making digital technology commonplace in our society.

Dr. Chiang earned his Bachelor of Science degree from National Taiwan University in 1968, his Master of Science degree from Princeton University in 1970 and his Doctorate from Stanford University in 1974, all in Electrical Engineering.

Jason Jingsheng Cong

Independent Non-Executive Director

Dr. Jason Jingsheng Cong became a Director of the Company on February 14, 2017. Dr. Cong received his B.S. degree in computer science from Peking University in 1985, his M.S. and Ph.D. degrees in computer science from the University of Illinois at Urbana-Champaign in 1987 and 1990, respectively. He is currently serving as a Chancellor's Professor at the Computer Science Department of University of California, Los Angeles, the Director of Center for Domain-Specific Computing, and the Director of VLSI Architecture, Synthesis and Technology (VAST) Laboratory. He served as the chair of the UCLA Computer Science Department from 2005 to 2008. He has served as an Associate Vice Provost for Internationalization and a co-director of the Peking University-UCLA Joint Research Institute since 2009. Dr. Cong is a Co-founder and the Chief Scientific Advisor of Falcon Computing Solutions Inc., and currently he is serving as its Chairman of Board of Directors. He is currently also a director of Inspirit, Inc. In addition, he is a distinguished visiting professor at Peking University and the Director of PKU Center for Energy-Efficient Computing and Applications (CECA). Dr. Cong's research interests include electronic design automation and energy-efficient computing. He has published over 400 research papers in these areas. He received 11 Best Paper Awards and three 10-Year Retrospective Most Influential Paper Awards. He received the 2011 ACM/IEEE A. Richard Newton Technical Impact Award in Electric Design Automation "for pioneering work on technology mapping for FPGA that has made significant impact on the FPGA research community and industry". He was elected IEEE Fellow in 2000 and ACM Fellow in 2008. He received the 2010 IEEE Circuits and System (CAS) Society Technical Achievement Award and the 2016 IEEE Computer Society Technical Achievement Award. Dr. Cong was elected as a member of the US National Academy of Engineering in 2017.

Senior Management

Dr. Zhao Haijun

Biographical details are set out on page 75 of this annual report.

Dr. Liang Mong Song

Biographical details are set out on page 75 of this annual report.

Dr. Gao Yonggang

Biographical details are set out on page 76 of this annual report.

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Dr. Liu Jyishyang joined SMIC in 2001. He became Vice President of Central Engineering & Services in 2010, and had been acting Vice President of Central Operations since September 2011. In June 2012 he was promoted to Senior Vice President, and on April 25, 2013, he took on the role as Executive Vice President. He has 30 years of experience in the international semiconductor industry, beginning with research & development work at Motorola and Bell Laboratories, as well as operations management at UMC. Dr. Liu received his BS and MS degrees from National Tsing Hua University and completed his Ph.D. in Materials Science and Engineering at the Massachusetts Institute of Technology. He has seven published technical papers and holds two patents. Dr. Liu retired from SMIC on December 31, 2017.

Mr. Li Zhi joined SMIC in March 2013 as Vice President, and was promoted to Executive Vice President in November 2014. He is responsible for overseeing legal, public affairs and general administration. He has over 30 years of engineering, management and operations experience in the electronics and semiconductor industry. In his previous roles, he was the Deputy-Director Secretary of the President's office of the China Electronic Information Industry Group, Deputy-Director Secretary of the Ministry of Electronics Industry, head of General Management Department at Beijing Hua Hong NEC IC Design Co. Ltd., President's Assistant and head of administrative legal department of Beijing Hua Hong IC Design Co. Ltd., Board Secretary of Hua Hong Semiconductor Company (Shanghai Hua Hong NEC Electronics Co. Ltd.), Director of the Board Office (Board Secretary) of Shanghai Hua Hong (Group) Co. Ltd., Executive Vice President, Board Member and CEO of Shanghai Belling Co. Ltd., Vice President of Shanghai Integrated Circuit Industry Association. Mr. Li holds a Bachelor's degree in Engineering from Beijing University of Aeronautics and Astronautics, and an EMBA from the University of Texas at Arlington. He also serves as the Vice President of the China Electronic Information Association.

Mr. Mike Rekuc joined SMIC in 2011 as President of SMIC Americas. In November 2012, he was promoted to Senior Vice President, initially overseeing Worldwide Sales. As of March 2013, he oversees Worldwide Sales and Marketing, and on April 25, 2013, he took on the role as Executive Vice President. Mr. Rekuc is an industry veteran with four decades of semiconductor experience in both the United States and Asia. Before joining SMIC, he was President of Grace Semiconductor USA for Shanghai-based foundry Grace Semiconductor. Before Grace, 1999 through 2010, he was Senior Vice President of Sales and Marketing of Chartered Semiconductor Manufacturing residing in their Singapore headquarters and also served as the President of Chartered American in the US (Chartered was acquired in 2010 by GlobalFoundries). Prior to joining Chartered, Mr. Rekuc spent 23 years at Motorola, rising from a district sales engineer in Motorola's semiconductor sector to become Vice President and Global Sales Director of its World Wide Wireless Subscribers Group. Mr. Rekuc began his career working for the United States Navy as a civilian semiconductor specialist. He holds a Bachelor of Science degree in Electrical Engineering from Lawrence Technological University. Mr. Rekuc retired from SMIC on December 31, 2017.

Dr. Tang Tianshen joined SMIC as Vice President of Business Development in 2010. He became Vice President of Design Service Center in March 2011 and was promoted to Senior Vice President in April 2013. On August 10, 2016, he took on the role as Executive Vice President. Dr. Tang is also a director of Brite Semiconductor Corp. and a Co-Director of SMIC-UCR-PKU Joint Center for ESD Protection Design. Dr. Tang is a semiconductor industry veteran with near 30 years of experience spanning academic and technology research, IC design, business development, sales and marketing, start-up company and corporate management in both United States and China. Prior to joining SMIC, Dr. Tang was Vice President of Design Service at Shanghai Hua Hong NEC Electronics Company. Before Hua Hong NEC, he was a co-founder and Chief Technology Officer of Penstar Technology Company. He also previously held management positions at Intel ITP and New Business Groups and Lanstar Semiconductor USA. Dr. Tang began his career in United States as an assistant professor in Electrical Engineering and Computer Sciences at Texas A&M University-Kingsville, rising to become a turned associate professor. Dr. Tang holds a bachelor's degree in mathematics from Tianjin Nankai University, a master and Ph.D both in electrical

engineering from Texas A&M University, College Station. Dr. Tang published over thirty peer-reviewed technical articles, led seven research programs funded by distinguished sources in both United States and China, and advised more than 20 graduate students. Dr. Tang was honored Scientific Chinese Figures 2015. Dr. Tang retired from SMIC on February 1, 2018.

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Dr. Zhou Meisheng, age 59, was appointed as Executive Vice President of Technology Research and Development since October 12, 2017. Dr. Zhou is one professional of the “National Recruitment Program of Global Experts (abbreviation of the overseas high-level talent introduction plan). Before she joined the Company, she served in Lam Research China as Regional CTO. Prior to that, Dr. Zhou has ever served as Vice President of the Company. Prior to serve as vice president of Lam Research China, she has ever conducted various levels of management positions in Chartered Semiconductor Manufacturing, TSMC, UMC and Global Foundries. Dr. Zhou received BSc and MSc degrees from Fudan University China in 1982 & 1985 respectively, and Ph.D. degree in Chemistry from Princeton University in 1990. Equipped with more than 20 years’ experience in world’s leading foundry companies, Dr. Zhou has accumulated extensive and rich management experience in advanced technology R&D, technical cooperation, technology transfer, verification of mass production, the start-up operation/mass production/operation of 12” Fab, and gradually shaped her own distinctive management philosophy. Specialized in module device, process and integrated technology, Dr. Zhou has been awarded with more than 130 US patents and published over 40 papers as co-inventor/author.

Mr. Gareth Kung joined SMIC in July 2012. He worked as Executive Vice President, Investment and Strategic Business Development and Finance and Company Secretary. Mr. Kung has over 25 years’ work experience working as a chief financial officer in publicly listed companies, private equity investment manager, banker and auditor. Between 2003 and 2009, Mr. Kung worked at SMIC as the Group Treasurer and Group Controller. From July 2012 to February 2014 Mr. Kung worked as the Company’s Chief Financial Officer. Mr. Kung holds a MBA from the University of Western Ontario and a bachelor’s degree in accounting from the National University of Singapore. Mr. Kung is a Certified Public Accountant in Hong Kong, Australia and Singapore and a Chartered Accountant of England and Wales. In addition, he is a Chartered Financial Analyst. Mr. Kung resigned from SMIC in July 2017.

Joint Company Secretary

Dr. Gao Yonggang

Biographical details are set out above.

Dr. Liu Wei, aged 60, was appointed as SMIC’s Joint Company Secretary in July 2017. Dr Liu is one of the senior partners of DLA Piper. Between 2008 and 2017, Dr. Liu was the Head of China Practice and managing partner of the Beijing Office of DLA Piper. Dr. Liu has PRC lawyer qualification and is a solicitor qualified to practice law in Hong Kong, England and Wales. Dr. Liu graduated from the Northwest University of China, the Chinese University of Political Science and Law, the University of Cambridge, with a bachelor in Chinese literature, a master degree in law, a PhD in Law in 1982, 1986 and 1996 respectively. He also completed his Postgraduate Certificate in Laws (PCLL) of the University of Hong Kong in 2000. Dr. Liu was the first student from the mainland of the PRC to obtain a PhD in law from the University of Cambridge after 1949. Dr. Liu worked for several local and state PRC governmental authorities. He is currently a member of the Shaanxi CPPCC. In 1988, Dr. Liu, as one of the lawyers working in Hong Kong in the early stage, participated in related work of the Hong Kong Basic Law, and then he was retained by the Securities and Futures Commission of Hong Kong as a PRC affairs officer responsible for the policies and supervision of law of red chip shares, H-shares and B-shares, and was responsible for coordination with the China Securities Regulatory Commission, the Shenzhen Stock Exchange and the Shanghai Stock Exchange.

#### Changes in Directorate and Update of Director's Information

#### Changes in the Members of the Board of Directors

As previously disclosed by the Company, there are the following changes in the members of the Board, between the period from the date of the 2017 interim report and the date of this annual report:

- Dr. Zhao HaiJun was appointed as Class II Executive Director and his title was changed from Chief Executive Officer into Co-Chief Executive Officer of the Company on October 16, 2017; and
- Dr. Liang Mong Song was appointed as Class III Executive Director and Co-Chief Executive Officer of the Company on October 16, 2017.

#### Changes in, and Updates to, Previously Disclosed Information Relating to the Directors

As required under the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the "Listing Rules"), certain changes in, and updates to, the information previously disclosed regarding the Directors during their respective terms of office are set out below:

- Dr. Gao Yonggang resigned from the position of independent director of China Building Material Test & Certification Group Co., Ltd. and GRINM Semiconductor Materials Co., Ltd with effect from February and April 2018 respectively.
- Dr. Tong Guohua served as the Chairman General Manager and Secretary of Party of China Academy of Telecommunications Technology Co., Ltd as well as Executive Director and President of Datang Telecom Technology & Industry Holdings Co., Ltd since December 2017 and was elected as a member of the thirteenth CPPCC National Committee in January 2018.

#### B. Director and Executive Compensation

Details of the emoluments paid or payable by us to our directors, including Zhou Zixue, our Chairman and Executive director, Zhao HaiJun, our Co-Chief Executive Officer and Executive Director, Liang Mong Song,

our Co-Chief Executive Officer and Executive Director and Gao Yonggang, our Chief Financial Officer and Executive Director, in 2017 are set out as below:

	Salaried and wages (in US\$ thousands)	Employee settled share-base payment	Total remuneration
Executive Directors:			
Zhou Zixue	765	311	1,076
Zhao HaiJun*	726	1,514	2,240
Liang Mong Song*	65	—	65
Gao Yonggang	634	24	658
Non-executive directors:			
Tzu-Yin Chiu**	1,783	5,321	7,104
Chen Shanzhi	75	128	203
Zhou Jie	—	—	—
Ren Kai	70	—	70
Lu Jun	—	—	—
Tong Guohua	40	217	257
Li Yonghua (Alternate to Chen Shanzhi)***	—	—	—
Independent non-executive directors:			
Lip-Bu Tan	91	128	219
William Tudor Brown	89	8	97
Carmen I-Hua Chang	70	40	110
Shang-Yi Chiang	47	250	297
Jason Jingsheng Cong	35	217	252
Total remuneration	4,490	8,158	12,648

\* Zhao HaiJun and Liang Mong Song are also the Co-Chief Executive Officers of the Company.

\*\* Tzu-Yin Chiu resigned as Chief Executive Officer on May 10, 2017 and remains as non-executive director.

\*\*\* Li Yonghua resigned as alternate director of Chen Shanzhi with effect from February 24, 2017.

The remuneration paid or payable by us to our senior management personnel, including Zhao HaiJun, Liang Mong Song and Gao Yonggang during the year are as follows:

	For the Year ended December 31, 2017 (in US\$ thousands)
Short-term benefits	2,553
Share-based payments	1,955
Total	4,508

We do not provide pension, retirement or similar benefits to our executive officers and directors except statutorily required benefits.

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In 2017, we have granted options to purchase an aggregate of 1,687,500 ordinary shares under our 2014 Stock Option Plan and awarded an aggregate of 1,687,500 restricted share units under our 2014 Equity Incentive Plan to certain executive officers. Our 2014 Stock Option Plan and our 2014 Equity Incentive Plan see "Item 6.E - Stock Incentive Schemes". The exercise price of the options granted to our executive officers in 2017 to purchase ordinary shares under the 2014 Stock Option Plan was US\$1.01 per share. The expiration dates of these options range from May 24, 2026 to September 11, 2026.

### C. Board Practices

#### Board of Directors

Members of the Board are elected or re-elected by the shareholders of the Company. The Directors shall have power at any time and from time to time to appoint any person to be a Director, either to fill a casual vacancy or as an addition to the existing Directors, to hold office until the next annual general meeting of the Company after such appointment and shall then be eligible for re-election at that meeting.

The composition of the Board during the year ended December 31, 2017 and up to the date of this report is set forth as follows:

Name of Director	Position	Class	Appointment Commencement Date
Zhou ZiXue	Chairman and Executive Director	I	2015/3/6
Tzu-Yin Chiu	Vice Chairman, Non-executive Director	I	2011/8/5 (redesignated to Non-executive Director on 2017/5/11)
Gao Yonggang	Chief Financial Officer, Executive Vice President, Joint Company Secretary and Executive Vice	I	2009/6/23
William Tudor Brown	Independent Non-executive Director	I	2013/8/8
Tong Guohua	Non-executive Director	I	2017/2/14
Chen Shanzhi	Non-executive Director	II	2009/6/23
Lip-Bu Tan	Independent Non-executive Director	II	2001/11/3
Carmen I-Hua Chang	Independent Non-executive Director	II	2014/9/1
Lu Jun	Non-executive Director	II	2016/2/18
Zhao HaiJun	Co-Chief Executive Officer, Executive Director	II	2017/10/16
Zhou Jie	Non-executive Director	III	2009/1/23
Ren Kai	Non-executive Director	III	2015/8/11
Shang-Yi Chiang	Independent Non-executive Director	III	2016/12/20
Jason Jingsheng Cong	Independent Non-executive Director	III	2017/2/14
	Co-Chief Executive Officer, Executive Director	III	2017/10/16

Liang Mong  
Song

#### Committees of Our Board of Directors

Our board of directors has an audit committee, a compensation committee and a nomination committee. The composition and responsibilities of these committees are described below.

#### Audit Committee

Currently, the members of the Company's Audit Committee ("Audit Committee") are Mr. Lip-Bu Tan (Chairman of Audit Committee), Mr. Zhou Jie and Mr. William Tudor Brown. None of these members has been an executive officer or employee of the Company or any of its subsidiaries.

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The responsibilities of the audit committee include, among other things:

- making recommendations to the Board concerning the appointment, reappointment, retention, evaluation, oversight and termination of the work of the Company's independent auditor;
- reviewing the experience, qualifications and performance of the senior members of the independent auditor team;
- pre-approving all non-audit services to be provided by the Company's independent auditor;
- approving the remuneration and terms of engagement of the Company's independent auditor;
- reviewing reports from the Company's independent auditor regarding the independent auditor's internal quality-control procedures; and any material issues raised in the most recent internal or peer review of such procedures, or in any inquiry, review or investigation by governmental, professional or other regulatory authority, respecting independent audits conducted by the independent auditor, and any steps taken to deal with these issues; and (to assess the independent auditor's independence) all relationships between the Company and the independent auditor;
- pre-approving the hiring of any employee or former employee of the Company's independent auditor who was a member of the audit team during the preceding three years and the hiring of any employee or former employee of the independent auditor holding senior positions regardless of whether that person was a member of the Company's audit team;
- reviewing the Company's annual, interim and quarterly financial statements, earnings releases, critical accounting policies and practices used to prepare financial statements, alternative treatments of financial information, the effectiveness of the Company's disclosure controls and procedures and important trends and developments in financial reporting practices and requirements;
- reviewing the scope, planning and staffing of internal audits, the organization, responsibilities, plans, results, budget and staffing of the Company's Internal Audit Department (as defined and discussed below), the quality, adequacy and effectiveness of the Company's internal controls (including financial, operational and compliance controls) and any significant deficiencies or material weaknesses in the design or operation of internal controls;
- considering the adequacy of resources, staff qualifications and experience, training programs and budget of the Company's accounting and financial reporting function;
- reviewing the Company's risk assessment and management policies;
- reviewing any legal matters that may have a material impact and the adequacy and effectiveness of the Company's legal and regulatory compliance procedures;
- establishing procedures for the treatment of complaints received by the Company regarding financial reporting, internal control or possible improprieties in other matters; and
- obtaining and reviewing reports from management, the Company's internal auditor and the Company's independent auditor regarding compliance with applicable legal and regulatory requirements.

During the year ended December 31, 2017, the audit committee reviewed:

- the Company's budget for 2017;
- the financial reports for the year ended and December 31, 2016 and the six months ended June 30, 2017;
- the quarterly financial statements, earnings releases and any updates thereto;
- the report and management letter submitted by the Company's outside auditors summarizing the findings of and recommendations based on their audit of the Company's financial reports;
- the findings and recommendations of the Company's outside auditors regarding the Company's compliance with the requirements of the Sarbanes-Oxley Act of 2002 (the "SOX");
- the effectiveness of the Company's internal control structure in operations, financial reporting integrity and compliance with applicable laws and regulations;
- 2016 risk management systems and assessment results;
- 2017 audit plan and audit team;
- 2017 SOX audit scope and SOX audit results for the year ended December 31, 2016 and six months ended June 30, 2017;
- the quarterly audit plan and quarterly audit items result;
- the quarterly risk assessment early warning index;
- the findings of the Company's compliance office, which ensures compliance with the HKSE's Corporate Governance Code ("CG Code") and Insider Trading Policy;
- the reports of the Company's ethics hotline;
- the audit fees for the Company's independent auditors; and
- the Company's independent auditors' engagement letters .

The Audit Committee reports its work, findings and recommendations to the Board regularly. In addition, the Audit Committee meets in person with the Company's external auditor four times a year.

The Audit Committee meets in person at least four times a year on a quarterly basis and on such other occasions as may be required to discuss and vote upon significant issues. The meeting schedule for the year is planned in the preceding year. The Company Secretary assists the chairman of the Audit Committee in preparing the agenda for meetings and assists the Audit Committee in complying with the relevant rules and regulations. The relevant papers for the Audit Committee meetings were dispatched to the Audit Committee in accordance with the CG Code. Members of the Audit Committee may include matters for discussion in the agenda if the need arises. Within a reasonable time after an Audit Committee meeting is held, minutes are circulated to the members of the Audit Committee for their comment and review prior to their approval of the minutes at the following or a subsequent Audit Committee meeting.

At each quarterly Audit Committee meeting, the Audit Committee, the Chief Financial Officer and the Company's independent auditors review the financial statements for the financial period and the financial and accounting principles, policies and controls of the Company and its subsidiaries. In particular, the Committee discusses (i) the changes in accounting policies and practices, if any; (ii) the going concern assumptions; (iii) compliance with accounting standards and applicable rules and other legal requirements in relation to financial reporting and (iv) the internal controls of the Company and the accounting and financial reporting systems. Upon the recommendation of the Audit Committee, the Board approves the financial statements.

#### Compensation Committee

Currently, the members of the Company's Compensation Committee ("Compensation Committee") are Mr. William Tudor Brown (Chairman of Compensation Committee), Mr. Zhou Jie, Mr. Lip-Bu Tan, Dr. Tong Guohua, and Dr. Shang-Yi Chiang. None of these members has been an executive officer or employee of the Company or any of its subsidiaries.

The responsibilities of the compensation committee include, among other things:

- approving and overseeing the total compensation package for the Company's executive officers and any other officer, evaluating the performance of and determining and approving the compensation to be paid to the Company's Chief Executive Officer and reviewing the results of the Chief Executive Officer's evaluation of the performance of the Company's other executive officers;
- determining the compensation packages of executive Directors and making recommendations to the Board with respect to non-executive Director compensation, including equity-based compensation;
- administering and periodically reviewing and making recommendations to the Board regarding the long-term incentive compensation or equity plans made available to the Directors, employees and consultants;
- reviewing and making recommendations to the Board regarding new and existing employment, consulting, retirement and severance agreements proposed for the Company's executive officers; and
- ensuring appropriate oversight of the Company's human resources policies and reviewing strategies established to fulfill the Company's ethical, and legal human resources responsibilities.

The Compensation Committee shall have the delegated authority to determine the remuneration packages of individual executive Directors and the Company's executive officers/senior management, and make recommendations to the Board on the remuneration of non-executive Directors. During the year ended December 31, 2017, in addition to reviewing the remuneration of executive Directors and the members of the Company's management, the Compensation Committee reviewed:

- the remuneration policy for employees for the year 2017;
- the profit-sharing and bonus policies and basis of calculation;
- the long term compensation strategy, including the granting of stock options and Restricted Share Units pursuant to the terms of the Option Plans;
- the compensation package of Dr. Tzu-Yin Chiu upon his resignation as the Company's CEO and the compensation package of new appointed CEO;
- the proposed compensation packages of newly-appointed Executive Directors during the year; and

- the proposed compensation change of directors.

The Compensation Committee reports its work, findings and recommendations to the Board during each quarterly Board meeting.

The Compensation Committee meets in person at least on a quarterly basis and on such other occasions as may be required to discuss and vote upon significant issues affecting the compensation policy of the Company. The meeting schedule for a given year is planned in the preceding year. The Company Secretary assists the chairman of the Compensation Committee in preparing the agenda for meetings and assists the Compensation Committee in complying with the relevant rules and regulations. The relevant papers for the Compensation Committee meetings were dispatched to Committee members in accordance with the CG Code. Members of the Compensation Committee may include matters for discussion in the agenda if the need arises. Upon the conclusion of the Compensation Committee meeting, minutes are circulated to the Committee members for their comment and review prior to their approval of the minutes at the following or a subsequent Compensation Committee meeting.

#### Nomination Committee

Currently, the members of the Company's Nomination Committee ("Nomination Committee") are Dr. Zhou Zixue (Chairman of Nomination Committee), Mr. Lu Jun, Mr. William Tudor Brown, Mr. Lip-Bu Tan and Ms. Carmen I-Hua Chang.

The responsibilities of the Nomination Committee include:

- reviewing the structure, size and composition (including the skills, knowledge and experience) of the Board at least annually and making recommendations on any proposed changes to the Board to complement the Company's corporate strategy;
- monitor the implementation of Board Diversity Policy (including any measurable objectives and the progress in achieving those objectives), and ensure that appropriate disclosures are made regarding board diversity in the Corporate Governance Report set out in the Company's annual report;
- identifying individuals suitably qualified to become Board members and making recommendations to the Board on the selection of individuals nominated for directorships;
- assessing the independence of independent non-executive directors; and
- making recommendations to the Board on the appointment or re-appointment of Directors and succession planning for Directors, in particular the Chairman of the Board and the Chief Executive Officer.

The Nomination Committee meets at least once a year and on such other occasions as may be required to discuss and vote upon significant issues relating to Board composition. The Company Secretary assists the chairman of the Nomination Committee in preparing the agenda for meetings and assists the Committee in complying with the relevant rules and regulations. The relevant papers for the Nomination Committee meetings were dispatched to Committee members in accordance with the CG Code. Members of the Nomination Committee may include matters for discussion in the agenda if the need arises. Upon the conclusion of the Nomination Committee meeting, minutes are circulated to the Nomination Committee members for their comment and review prior to their approval of the minutes at the following or a subsequent Committee meeting. During the year ended December 31, 2017, the Nomination Committee:

- reviewed the structure, size and composition (including the skills, knowledge and experience) of the Board;



- set criteria and reviewed potential nominees for directorships;
- evaluated the independence of the independent non-executive directors;
- reviewed the re-election of Directors;
- nominated independent non-executive director, non-executive director, executive directors; and
- nominated new members for compensation committee.

#### D. Employees

The following table sets forth, as of the dates indicated, the number of our employees serving in the capacities indicated:

Position	As of December 31,			
	2014	2015	2016	2017
Managers	930	962	1,210	1,380
Professionals(1)	4,988	6,112	7,978	8,230
Technicians	5,116	6,170	8,100	7,549
Clerical staff	351	229	679	667
Total(2)	11,385	13,473	17,967	17,826

(1) Professionals include engineers, lawyers, accountants and other personnel with specialized qualifications, excluding managers.

(2) Includes 14, 13, 56 and 49 temporary and part-time employees in 2014, 2015, 2016, and 2017 respectively.

The following table sets forth, as of the dates indicated, a breakdown of the number of our employees by geographic location:

Location of Facility	As of December 31,			
	2014	2015	2016	2017
Shanghai	6,896	7,533	8,404	8,077
Beijing	2,518	3,242	4,721	4,607
Tianjin	1,511	1,630	1,663	1,636
Chengdu	10	10	10	10
Shenzhen	405	843	1,284	1,477
Jiangyin	—	174	314	356
Ningbo	—	—	—	82
United States	25	20	20	23
Europe	6	7	1,537	1,541
Japan	2	2	2	4
Taiwan Office	9	9	9	10
Hong Kong	3	3	3	3
Total	11,385	13,473	17,967	17,826

Our employees are not covered by any collective bargaining agreements.





## E. Share Ownership

The table below sets forth the ordinary shares beneficially owned by each of our Directors and options to purchase ordinary shares as of December 31, 2017:

Board Member	Number of Ordinary Shares Held(22)	Derivatives Share Options(22)		Other(22)	Aggregate Interest(22)	Percentage of Aggregate Interests to Total Issued Share Capital of the Company(1)	
Co-Chief Executive Officers							
Zhao HaiJun	49,311	1,875,733	(2)	1,687,500 (3)	3,612,544	0.073	%
Liang Mong Song	—	—		—	—	—	
Executive Director							
Zhou Zixue	—	2,521,163	(4)	1,080,498 (5)	3,601,661	0.073	%
Gao Yonggang	—	1,964,003	(6)	85,505 (7)	2,049,508	0.042	%
Non-executive Director							
Tzu-Yin Chiu	3,519,361	9,603,588	(8)	3,351,477 (9)	16,474,426	0.335	%
Chen Shanzhi	—	477,187	(10)	162,656 (11)	639,843	0.013	%
Zhou Jie	—	—		—	—	—	
Ren Kai	—	—		—	—	—	
Lu Jun	—	—		—	—	—	
Tong Guo Hua	—	187,500	(12)	187,500 (13)	375,000	0.008	%
Independent Non-executive Director							
Lip-Bu Tan	115,439	591,426	(14)	62,500 (15)	769,365	0.016	%
William Tudor Brown	—	—	(16)	—	—	—	
Carmen I-Hua Chang	—	488,730	(17)	—	488,730	0.010	%
Shang-Yi Chiang	—	187,500	(18)	187,500 (19)	375,000	0.008	%
Jason Jingsheng Cong	—	187,500	(20)	187,500 (21)	375,000	0.008	%

Notes:

(1) Based on 4,916,106,889 Ordinary Shares issued by us as at December 31, 2017.

- (2) These options comprise: (a) options which were granted to Dr. Zhao on June 11, 2013 to purchase 1,505,854 Ordinary Shares at a price of HK\$6.40 per Ordinary Share pursuant to the 2004 Stock Option Plan and will expire on the earlier of June 10, 2023 or 90 days after termination of his service, (b) options which were granted to Dr. Zhao on September 7, 2017 to purchase 1,687,500 Ordinary Shares at a price of HK\$7.9 per Ordinary Share pursuant to the 2014 Stock Option Plan and will expire on the earlier of September 6, 2027 or 90 days after termination of his service as Co-Chief Executive Officer. As of December 31, 2017, 1,317,621 of these options have been exercised.
- (3) On September 7, 2017, Dr. Zhao was granted an award of 1,687,500 Restricted Share Units (each representing the right to receive one Ordinary Share) pursuant to the 2014 Equity Incentive Plan. These RSUs will vest over one year commencing on the date on which Dr. Zhao commenced his term of office as Co-Chief Executive Officer. As of December 31, 2017, none of these RSUs has been exercised.

- (4) On May 20, 2015, Dr. Zhou was granted options to purchase 2,521,163 Ordinary Shares at a price of HK\$8.30 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options will expire on the earlier of May 19, 2025 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (5) On May 20, 2015, Dr. Zhou was granted an award of 1,080,498 Restricted Share Units (each representing the right to receive one Ordinary Share) pursuant to the 2014 Equity Incentive Plan. These RSUs, 25% of which will vest on each anniversary of March 6, 2015, shall fully vest on March 6, 2019. As of December 31, 2017, 540,249 Restricted Share Units were vested.
- (6) These options comprise: (a) options which were granted to Dr. Gao on May 24, 2010 to purchase 314,531 Ordinary Shares at a price of HK\$6.4 per Ordinary Share pursuant to the 2004 Stock Option Plan and will expire on the earlier of May 23, 2020 or 120 days after termination of his service as a Director to the Board, (b) options which were granted to Dr. Gao on June 17, 2013 to purchase 1,360,824 Ordinary Shares at a price of HK\$6.24 per Ordinary Share pursuant to the 2004 Stock Option Plan and will expire on the earlier of June 16, 2023 or 120 days after termination of his service as a Director to the Board, (c) options which were granted to Dr. Gao on June 12, 2014 to purchase 288,648 Ordinary Shares at a price of HK\$6.4 per Ordinary Share pursuant to the 2014 Stock Option Plan and will expire on the earlier of June 11, 2024 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (7) On November 17, 2014, Dr. Gao was granted an award of 291,083 Restricted Share Units pursuant to the 2014 Equity Incentive Plan, consisting of (a) 240,145 Restricted Share Units, 25% of which vest on each anniversary of June 17, 2013 and which shall fully vest on June 17, 2017; and (b) 50,938 Restricted Share Units, 25% of which vest on each anniversary of March 1, 2014 and which shall fully vest on March 1, 2018. As December 31, 2017, a total of 205,578 Restricted Share Units were vested, and were settled in cash.
- (8) These options comprise: (a) On September 8, 2011, Dr. Chiu was granted options to purchase 8,698,753 Ordinary Shares at a price of HK\$4.55 per Ordinary Share pursuant to the 2004 Stock Option Plan. These options will expire on the earlier of September 7, 2021 or 120 days after termination of his service as a Director to the Board. (b) On May 25, 2016, options to purchase 703,106 shares at a price of HK\$6.42 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chiu. These options are vested immediately and will expire on the earlier of May 24, 2026 or 120 days after termination of his service as a Director to the Board. (c) On September 12, 2016, options to purchase 150,252 shares at a price of HK\$8.72 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chiu. These options are vested immediately and will expire on the earlier of September 11, 2026 or 120 days after termination of his service as a Director to the Board. (d) On April 5, 2017, options to purchase 2,109,318 shares at a price of HK\$9.834 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chiu. These options are vested immediately and will expire on the earlier of April 4, 2027 or 120 days after termination of his service as a Director to the Board. (e) On May 22, 2017, options to purchase 1,054,659 shares at a price of HK\$8.48 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chiu. These options are vested on June 30, 2017 and will expire on the earlier of June 29, 2027 or 120 days after termination of his service as a Director to the Board. (f) On September 7, 2017, options to purchase 187,500 shares at a price of HK\$7.9 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chiu. These options are vested on June 24, 2017 and will expire on the earlier of June 23, 2027 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, 3,300,000 of these options have been exercised.

- (9) These restricted share units comprise: (a) On May 25, 2016, 703,106 Restricted Share Units were granted to Dr. Chiu pursuant to the 2014 Equity Incentive Plan. Dr. Chiu's Restricted Share Units are vested immediately. (b) On September 12, 2016, 150,252 Restricted Share Units were granted to Dr. Chiu pursuant to the 2014 Equity Incentive Plan. Dr. Chiu's Restricted Share Units are vested immediately. (c) On April 5, 2017, 2,109,318 Restricted Share Units were granted to Dr. Chiu pursuant to the 2014 Equity Incentive Plan. Dr. Chiu's Restricted Share Units are vested immediately. (d) On May 22, 2017, 1,054,659 Restricted Share Units were granted to Dr. Chiu pursuant to the 2014 Equity Incentive Plan. Dr. Chiu's Restricted Share Units are vested on June 30, 2017. (e) On September 7, 2017, 187,500 Restricted Share Units were granted to Dr. Chiu pursuant to the 2014 Equity Incentive Plan. These RSUs will vest over a period of three years at the rate of 33%, 33% and 34% on each anniversary of June 24, 2017, shall fully vest on June 24, 2020. As of December 31, 2017, 853,358 Restricted Share Units have been exercised.
- (10) These options comprise: (a) On May 24, 2010, Dr. Chen was granted options to purchase 314,531 Ordinary Shares at a price of HK\$6.4 per Ordinary Share pursuant to the 2004 Stock Option Plan. These options will expire on the earlier of May 23, 2020 or 120 days after termination of his service as a Director to the Board. (b) On May 25, 2016, options to purchase 98,958 shares at a price of HK\$6.42 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chen. These options are vested immediately and will expire on the earlier of May 24, 2026 or 120 days after termination of his service as a Director to the Board. (c) On September 12, 2016, options to purchase 1,198 shares at a price of HK\$8.72 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chen. These options are vested immediately and will expire on the earlier of September 11, 2026 or 120 days after termination of his service as a Director to the Board. (d) On April 5, 2017, options to purchase 62,500 shares at a price of HK\$9.834 per Ordinary Share pursuant to the 2014 Stock Option Plan were granted to Dr. Chen. These options are vested immediately and will expire on the earlier of April 4, 2027 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (11) These restricted share units comprise: (a) On May 25, 2016, 98,958 Restricted Share Units were granted to Dr. Chen pursuant to the 2014 Equity Incentive Plan. Dr. Chen's Restricted Share Units are vested immediately. (b) On September 12, 2016, 1,198 Restricted Share Units were granted to Dr. Chen pursuant to the 2014 Equity Incentive Plan. Dr. Chen's Restricted Share Units are vested immediately. (c) On April 5, 2017, 62,500 Restricted Share Units were granted to Dr. Chen pursuant to the 2014 Equity Incentive Plan. Dr. Chen's Restricted Share Units are vested immediately. As of December 31, 2017, none of these RSUs has been exercised.
- (12) On April 5, 2017, Dr. Tong was granted options to purchase 187,500 Ordinary Shares at a price of HK\$9.834 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options will expire on the earlier of April 4, 2027 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (13) On April 5, 2017, Dr. Tong was granted an award of 187,500 Restricted Share Units (each representing the right to receive one Ordinary Share) pursuant to the 2014 Equity Incentive Plan. These RSUs, over a period of three years at the rate of 33%, 33% and 34% of which will vest on each anniversary of February 14, 2017, shall fully vest on February 14, 2020. As of December 31, 2017, none of these RSUs has been exercised.

- (14) These options comprise: (a) options granted to Mr. Tan on February 17, 2009 to purchase 100,000 Ordinary Shares at a price of HK\$2.7 per Ordinary Share pursuant to the 2004 Stock Option Plan, which will expire on the earlier of February 16, 2019 or 120 days after termination of Mr. Tan's service as a Director to the Board, (b) options granted to Mr. Tan on February 23, 2010 to purchase 313,487 Ordinary Shares at a price of HK\$7.7 per Ordinary Share pursuant to the 2004 Stock Option Plan, which will expire on the earlier of February 22, 2020 or 120 days after termination of Mr. Tan's service as a Director to the Board, (c) options granted to Mr. Tan on May 25, 2016 to purchase 114,583 Shares at a price of HK\$6.42 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options are vested immediately and will expire on the earlier of May 24, 2026 or 120 days after termination of his service as a Director to the Board, (d) options granted to Mr. Tan on September 12, 2016 to purchase 856 Shares at a price of HK\$8.72 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options are vested immediately and will expire on the earlier of September 11, 2026 or 120 days after termination of his service as a Director to the Board, and (e) options granted to Mr. Tan on April 5, 2017 to purchase 62,500 shares at a price of HK\$9.834 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options are vested immediately and will expire on the earlier of April 4, 2027 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (15) These restricted share units comprise: (a) On May 25, 2016, 114,583 Restricted Share Units were granted to Mr. Tan pursuant to the 2014 Equity Incentive Plan. Mr. Tan's Restricted Share Units are vested immediately. (b) On September 12, 2016, 856 Restricted Share Units were granted to Mr. Tan pursuant to the 2014 Equity Incentive Plan. Mr. Tan's Restricted Share Units are vested immediately. (c) On April 5, 2017, 62,500 Restricted Share Units were granted to Mr. Tan pursuant to the 2014 Equity Incentive Plan. Mr. Tan's Restricted Share Units are vested immediately. As of December 31, 2017, 115,439 Restricted Share Units were exercised.
- (16) On September 6, 2013, Mr. Brown was granted options to purchase 449,229 Ordinary Shares at a price of HK\$5.62 per Ordinary Share pursuant to the 2004 Stock Option Plan. These options will expire on the earlier of September 5, 2023 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, all of these options have been exercised.
- (17) On November 17, 2014, Ms. Chang was granted options to purchase 488,730 Ordinary Shares at a price of HK\$8.5 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options will expire on the earlier of November 16, 2024 or 120 days after termination of her service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (18) On April 5, 2017, Dr. Chiang was granted options to purchase 187,500 Ordinary Shares at a price of HK\$9.834 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options will expire on the earlier of April 4, 2027 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.
- (19) On April 5, 2017, Dr. Chiang was granted an award of 187,500 Restricted Share Units (each representing the right to receive one Ordinary Share) pursuant to the 2014 Equity Incentive Plan. These RSUs, over a period of three years at the rate of 33%, 33% and 34% of which will vest on each anniversary of December 20, 2016, shall fully vest on December 20, 2019. As of December 31, 2017, none of these RSUs has been exercised.
- (20) On April 5, 2017, Dr. Cong was granted options to purchase 187,500 Ordinary Shares at a price of HK\$9.834 per Ordinary Share pursuant to the 2014 Stock Option Plan. These options will expire on the earlier of April 4, 2027 or 120 days after termination of his service as a Director to the Board. As of December 31, 2017, none of these options has been exercised.

- (21) On April 5, 2017, Dr. Cong was granted an award of 187,500 Restricted Share Units (each representing the right to receive one Ordinary Share) pursuant to the 2014 Equity Incentive Plan. These RSUs, over a period of three years at the rate of 33%, 33% and 34% of which will vest on each anniversary of February 14, 2017, shall fully vest on February 14, 2020. As of December 31, 2017, none of these RSUs has been exercised.
- (22) These interests have been adjusted upon the Share Consolidation taking effect from December 7, 2016 on the basis of consolidating every ten Ordinary Shares of US\$0.0004 each into one Ordinary Share of US\$0.004 each. The shareholdings set forth above excludes shares beneficially owned by entities affiliated with our Directors. Each of our Directors disclaims beneficial ownership of the shares beneficially owned by such affiliated entity, except to the extent of such director's pecuniary interest therein as disclosed above.

The exercise price of our options is denominated in Hong Kong dollars. Such exercise prices of our options in Hong Kong dollar was converted into U.S. dollars at the exchange rates that were in effect as of the applicable option grants dates.

The compensation committee has approved the grant of options to each of our executive officers options to purchase ordinary shares pursuant to our 2004 Stock Option Plan and 2014 Stock Option Plan, as applicable, and restricted share units that represent rights to receive ordinary shares pursuant to our 2004 Equity Incentive Plan and 2014 Equity Incentive Plan. The exercise price of the options ranges from US\$0.35 to US\$1.47. The options expire between May 15, 2017 and September 11, 2026. The majority of the options and restricted share units are subject to a four-year vesting period. Each executive officer owns less than 1% of the total outstanding shares.

The purposes of the our stock incentive plans are to attract, retain and motivate employees and our directors, and our other service providers, to provide a means on and after the public offering of compensating them for their contributions to our growth and profits and to allow such employees, directors and service providers to participate in such growth and profitability.

#### 2004 Stock Incentive Plans

##### 2004 Stock Option Plan

Our shareholders adopted on February 16, 2004 that certain 2004 Stock Option Plan which then became effective on March 18, 2004 and was amended it on June 23, 2009. The number of the Ordinary Shares that may be issued pursuant to our 2004 Stock Option Plan shall not, in the aggregate, exceed 2,434,668,733 Ordinary Shares prior to the Share Consolidation, representing 4.95% of the issued Ordinary Shares as at December 31, 2017.

In no event may the number of Ordinary Shares that may be issued pursuant to any outstanding stock option granted under this 2004 Stock Option Plan exceed, in the aggregate, thirty percent (30%) of the issued and outstanding Ordinary Shares in issuance from time to time. Stock options issued under the 2004 Stock Option Plan are issued in the form of Ordinary Shares or American depository shares. For purposes of determining the number of the Ordinary Shares available under the 2004 Stock Option Plan, the issuance of an American depository share is deemed to equal fifty underlying Ordinary Shares. In addition, Ordinary Shares or American depository shares subject to stock options under our 2004 Stock Option Plan are available again for grant and issuance under our 2004 Stock Option Plan to the extent such stock options have lapsed without Ordinary Shares or American depository shares being issued.

Our 2004 Stock Option Plan authorizes the award of incentive stock options (ISOs) within the meaning of Section 422 of the United States Internal Revenue Code of 1986, as amended (the "Code"), non-qualified stock options and Director options.





Director options are non-qualified options granted to non-employee members of the Board, or non-employee Directors. The terms of Director options may vary among non-employee Directors and the 2004 Stock Option Plan does not impose any requirement to grant Director options subject to uniform terms.

Our 2004 Stock Option Plan is administered by the Company's compensation committee or by the Board acting in place of the Company's compensation committee. The compensation committee has the authority to construe and interpret our 2004 Stock Option Plan, grant stock options and make all other determinations necessary or advisable for the administration of the plan.

Our 2004 Stock Option Plan provides for the grant of options to our employees, officers or other service providers located in China, the United States or elsewhere, or to a trust established in connection with any employee benefit plan of the Company (including the 2004 Stock Option Plan) for the benefit of those individuals eligible to participate in the 2004 Stock Option Plan; provided that, ISOs may be granted only to our employees. The total number of Ordinary Shares underlying stock granted pursuant to the 2004 Stock Option Plan by a participant (including both exercised and outstanding stock options) in any twelve-month period may not exceed at any time one percent (1%) (or 0.1% in the case of an "independent non-executive Director" (as that term is used in the Hong Kong Stock Exchange Listing Rules)) of the then issued and outstanding Ordinary Shares subject to such changes from time to time to applicable Hong Kong Stock Exchange Listing Rules.

The exercise price of stock options must be at least equal to the fair market value of the Ordinary Shares on the date of grant.

In general, options granted under the 2004 Stock Option Plan vest over a four-year period. Options may vest based on time or achievement of performance conditions. The Company's compensation committee may provide for options to be exercised only as they vest or to be immediately exercisable with any Ordinary Shares or American depositary shares issued on exercise being subject to our right of repurchase that lapses as the shares vest. The maximum term of options granted under our 2004 Stock Option Plan is ten years, subject to changes under the Hong Kong Stock Exchange Listing Rules, as determined by the compensation committee of the Company. Unless otherwise permitted by the Company's compensation committee, stock options may be exercised during the lifetime of the optionee only by the optionee or the optionee's family members or to a trust or partnership established for the benefit of such family members. Options granted under our 2004 Stock Option Plan may not be transferred in any manner other than by will or by the laws of descent and distribution, or pursuant to a domestic relations order or as determined by the Company's compensation committee. Options granted under our 2004 Stock Option Plan generally may be exercised for a period of ninety days after the termination of the optionee's service to us, except that Director options may be exercised for a period of one hundred and twenty days after the termination of the non-employee Director's service to us. Options whether or not vested generally terminate immediately upon termination of employment for cause.

The number and kind of the Ordinary Shares or American depositary shares authorized for issuance under the various limits set forth in the 2004 Stock Option Plan, the number of outstanding stock options and the number and kind of shares subject to any outstanding stock options and the exercise price per share, if any, under any outstanding stock option are equitably adjusted (including by payment of cash to a participant) by the compensation committee of the Company in the event of a capitalization issue, rights issue, subdivision or consolidation of shares or reduction of capital in order to preserve, but not increase, the benefits or potential benefits intended to be made available under the 2004 Stock Option Plan.



Our 2004 Stock Option Plan provides that in the event of a change in control, including without limitation a person or entity acquiring beneficial ownership of 35% of the Company's then-outstanding shares entitled to vote in the election of the Board, the complete dissolution of the Company, consolidation, merger, or similar transaction involving the Company, the sale of all or substantially all of the assets of the Company or the consolidated assets of the Company and its subsidiaries, a substantial change in the composition of the Board or any change in control as defined in the Hong Kong Code on Takeovers and Mergers, the compensation committee of the Company determines how to treat each outstanding stock award. The compensation committee of the Company may:

- shorten the period during which the stock options are exercisable;
- accelerate the vesting of the stock options or waive, in whole or in part, any performance conditions to such vesting;
- arrange for the assumption or replacement of stock options by a successor corporation;
- adjust stock options or their replacements so that such stock options are in respect of the shares of stock, securities or other property (including cash) as may be issuable or payable as a result of such transaction;
- cancel the stock option prior to the transaction in exchange for a cash payment, which may be reduced by the exercise price payable in connection with the stock option.

In the event of a change in control that results in a complete liquidation or dissolution of the Company, all outstanding stock options immediately terminate.

Our 2004 Stock Option Plan was terminated on November 15, 2013. The stock options granted before such termination remain outstanding and continue to vest and become exercisable in accordance with, and subject to, the terms of the 2004 Stock Option Plan.

The Share Consolidation will cause adjustments to the exercise price of such stock options and the number of Ordinary Shares to be issued under the outstanding stock options, pursuant to the terms and conditions of such options and under terms and conditions of the Company's 2004 Stock Option Plan.

#### Amended and Restated 2004 Equity Incentive Plan

Our shareholders approved 2004 Equity Incentive plan on February 16, 2004. Subsequently, our shareholders adopted an Amended and Restated 2004 Equity Incentive Plan that became effective on June 3, 2010. The aggregate number of the Ordinary Shares that may be issued pursuant to the Amended and Restated 2004 Equity Incentive Plan may not exceed 1,015,931,725 Ordinary Shares prior to the Share Consolidation, representing 2.07% of the issued Ordinary Shares as at December 31, 2017. Awards issued under the Amended and Restated 2004 Equity Incentive Plan may be issued in the form of Ordinary Shares or American depositary shares. For purposes of determining the number of the Ordinary Shares available under the Amended and Restated 2004 Equity Incentive Plan, the issuance of an American depositary share is deemed to equal fifty underlying Ordinary Shares. In addition, the following Ordinary Shares or American depositary shares may become available for issuance under our Amended and Restated 2004 Equity Incentive Plan:

- Ordinary Shares or American depositary shares forfeited or withheld from issuance to settle an award;
- Ordinary Shares or American depositary shares withheld to satisfy the tax withholding obligations related to any award; and

· Ordinary Shares or American depositary shares subject to awards granted under our Amended and Restated 2004 Equity Incentive Plan that otherwise terminate or lapse without ordinary shares or American depositary shares being issued.

Our Amended and Restated 2004 Equity Incentive Plan authorizes the award of restricted share awards (RSAs), stock appreciation rights (SARs), restricted share units (RSUs), and other equity-based or equity-related awards based on the value of the Ordinary Shares. Cash payments based on criteria determined by the compensation committee may also be awarded under the Amended and Restated 2004 Equity Incentive Plan.

Our Amended and Restated 2004 Equity Incentive Plan is administered by the Company's compensation committee or by the Board acting in place of the Company's compensation committee. The Company's compensation committee has the authority to construe and interpret our Amended and Restated 2004 Equity Incentive Plan, grant awards and make all other determinations necessary or advisable for the administration of the plan.

Our Amended and Restated 2004 Equity Incentive Plan provides for the grant of awards to our employees, officers or other service providers located in China, the United States or elsewhere, or to a trust established in connection with any employee benefit plan of the Company (including the Amended and Restated 2004 Equity Incentive Plan) for the benefit of those individuals eligible to participate in the Amended and Restated 2004 Equity Incentive Plan.

An RSA is an award of the Ordinary Shares or American depositary shares that are granted for no consideration other than the provision of services (or such minimum payment as may be required under applicable law). The price (if any) of an RSA is determined by the compensation committee. Unless otherwise determined by the compensation committee at the time of award, vesting ceases on the date the participant no longer provides services to us and unvested shares are forfeited to or repurchased by us. Performance-based RSAs that vest based on the attainment of one or more performance goals over a period of time that the compensation committee determines may also be awarded under the Amended and Restated 2004 Equity Incentive Plan.

Stock appreciation rights provide for a payment, or payments, in cash, Ordinary Shares or American depositary shares, to the holder based upon the difference between the fair market value of the Ordinary Shares or American depositary shares on the date of exercise and the stated exercise price up to a maximum amount of cash or number of Ordinary Shares or American depositary shares. SARs may vest based on time or achievement of performance conditions. The compensation committee may determine whether SARs may be granted alone or in tandem with a stock option granted under our 2004 Stock Option Plan or another award.

Restricted share units represent the right to receive the Ordinary Shares or American depositary shares at a specified date in the future, subject to forfeiture of that right because of termination of employment or failure to achieve certain performance conditions. The price HKD0.031 of an RSA is determined by the compensation committee. If an RSU has not been forfeited, then on the date specified in the RSU agreement, we deliver to the holder of the restricted share unit the Ordinary Shares (which may be subject to additional restrictions) or American depositary shares, cash or a combination of the Ordinary Shares and cash or our American depositary shares and cash.

The number and kind of the Ordinary Shares or American depositary shares under the various limits set forth in the Amended and Restated 2004 Equity Incentive Plan, the number of outstanding awards and the number and kind of shares subject to any outstanding award and the purchase price per share, if any, under any outstanding award shall be equitably adjusted (including by payment of cash to a participant) by the compensation committee in the event of a capitalization issue, rights issue, sub-division or consolidation of shares or reduction of capital in order to preserve, but not increase, the benefits or potential benefits intended to be made available under the Amended and Restated 2004 Equity Incentive Plan.



Awards granted under our Amended and Restated 2004 Equity Incentive Plan may not be transferred in any manner other than by will or by the laws of descent and distribution, or pursuant to a domestic relations order or as determined by the Company's compensation committee.

Our Amended and Restated 2004 Equity Incentive Plan provides that in the event of a change in control, including without limitation a person or entity acquiring beneficial ownership of 35% of our then-outstanding shares entitled to vote in the election of the Board, the complete dissolution of the Company, consolidation, merger, or similar transaction involving the Company, the sale of all or substantially all of the assets of the Company or the consolidated assets of us and our subsidiaries, a substantial change in the composition of the Board or any change in control as defined in the Hong Kong Code on Takeovers and Mergers, the compensation committee of the Company determines how to treat each outstanding award. The compensation committee may.

- shorten the period during which the awards may be settled;
- accelerate the vesting of the award or waive, in whole or in part, any performance conditions to such vesting;
- arrange for the assumption or replacement of an award by a successor corporation;
- adjust awards or their replacements so that such awards are in respect of the shares of stock, securities or other property (including cash) as may be issuable or payable as a result of such transaction; or
- cancel the award prior to the transaction in exchange for a cash payment, which may be reduced by the exercise price payable in connection with the award.

In the event of a change in control that results in a complete liquidation or dissolution of the Company, all outstanding awards immediately terminate.

Our Amended and Restated 2004 Equity Incentive Plan was terminated on November 15, 2013. The awards granted before such termination remain outstanding and continue to vest in accordance with, and subject to, the terms of the Amended and Restated 2004 Equity Incentive Plan.

The Share Consolidation will cause adjustments to the par value of Ordinary Shares to be received by the relevant grantee on the date of vesting of the relevant award of RSUs and the number of Ordinary Shares to be issued pursuant to the terms and conditions of the awards of unvested RSUs and under the terms and conditions of the Company's Amended and Restated 2004 Equity Incentive Plan.

## 2014 Stock Incentive Plans

### 2014 Stock Option Plan

We adopted a 2014 Stock Option Plan that became effective on November 15, 2013 when the 2014 Stock Option Plan was registered with the PRC State Administration of Foreign Exchange. The number of Ordinary Shares that may be issued pursuant to the 2014 Stock Option Plan and the 2014 Employee Stock Purchase Plan (if adopted) shall not, in the aggregate, exceed 3,207,377,124 Ordinary Shares prior to the Share Consolidation, representing 6.52% of the issued Ordinary Shares as at December 31, 2017. In no event may the number of Ordinary Shares that may be issued pursuant to any outstanding stock option granted under this 2014 Stock Option Plan or any of our other stock option plans or any outstanding purchase right granted under the 2014 Employee Stock Purchase Plan (if adopted) or any other of our employee stock purchase plans exceed, in the aggregate, thirty percent (30%) of the issued and outstanding Ordinary Shares in issuance from time to time, subject to such changes with respect to such thirty percent (30%) limit that may apply from time to time under the Hong Kong Stock Exchange Listing Rules. Stock options issued under the 2014 Stock Option Plan may be issued in the form of Ordinary Shares or American depositary shares. For purposes of determining the number of our Ordinary Shares available under the 2014 Stock Option Plan, the issuance of an American depositary share is deemed to equal fifty underlying Ordinary Shares. In addition, Ordinary Shares or American depositary shares subject to stock options under the 2014 Stock Option Plan will again be available for grant and issuance under the 2014 Stock Option Plan to the extent such stock options have lapsed without Ordinary Shares or American depositary shares being issued.

The 2014 Stock Option Plan authorizes the award of incentive stock options (ISOs) within the meaning of Section 422 of the Code, non-qualified stock options and Director options.

Director options are non-qualified options granted to non-employee members of the Board, or non-employee Directors. The terms of director options may vary among non-employee Directors and the 2014 Stock Option Plan does not impose any requirement to grant director options subject to uniform terms.

Our 2014 Stock Option Plan will be administered by our compensation committee or by our board of directors acting in place of the compensation committee. The compensation committee will have the authority to construe and interpret the 2014 Stock Option Plan, grant stock options and make all other determinations necessary or advisable for the administration of the plan.

Our 2014 Stock Option Plan will provide for the grant of options to our employees, officers or other service providers located in China, the United States or elsewhere, or to a trust established in connection with any employee benefit plan of the Company (including the 2014 Stock Option Plan) for the benefit of those individuals eligible to participate in the 2014 Stock Option Plan; provided, that, ISOs may be granted only to our employees. The total number of Ordinary Shares underlying stock granted pursuant to the 2014 Stock Option Plan or any of our other stock option plans to, and the total number of Ordinary Shares that may be purchased under one or more purchase rights granted under the 2014 Employee Stock Purchase Plan (if adopted) or any of our other employee stock purchase plans by, a participant (including both exercised and outstanding stock options) in any twelve-month period may not exceed at any time one percent (1%) (or 0.1% in the case of an “independent non-executive Director” (as that term is used in the Hong Kong Stock Exchange Listing Rules) of the then issued and outstanding Ordinary Shares subject to such changes from time to time to applicable Hong Kong Stock Exchange Listing Rules.

The exercise price of stock options must be at least equal to the fair market value of our Ordinary Shares on the date of grant.





In general, options will vest over a four-year period. Options may vest based on time or achievement of performance conditions. Our compensation committee may provide for options to be exercised only as they vest or to be immediately exercisable with any Ordinary Shares or American depositary shares issued on exercise being subject to our right of repurchase that lapses as the shares vest. The maximum term of options granted under the 2014 Stock Option Plan is ten years, subject to changes under the Hong Kong Stock Exchange Listing Rules, as determined by the compensation committee. Unless otherwise permitted by our compensation committee, stock options may be exercised during the lifetime of the optionee only by the optionee or the optionee's guardian or legal representative. Options granted under the 2014 Stock Option Plan may not be transferred in any manner other than by will or by the laws of descent and distribution, or pursuant to a domestic relations order or as determined by our compensation committee. Options granted under the 2014 Stock Option Plan generally may be exercised for a period of ninety days after the termination of the optionee's service to us, except that director options may be exercised for a period of one hundred and twenty days after the termination of the non-employee Director's service to us. Options generally terminate immediately upon termination of employment for cause.

The number and kind of our Ordinary Shares or American depositary shares authorized for issuance under the various limits set forth in the 2014 Stock Option Plan, the number of outstanding stock options and the number and kind of shares subject to any outstanding stock options and the exercise price per share, if any, under any outstanding stock option will be equitably adjusted (including by payment of cash to a participant) by the compensation committee in the event of a capitalization issue, rights issue, sub-division or consolidation of shares or reduction of capital in order to preserve, but not increase, the benefits or potential benefits intended to be made available under the 2014 Stock Option Plan.

Our 2014 Stock Option Plan provides that in the event of a change in control, including without limitation a person or entity acquiring beneficial ownership of 35% of the Company's then-outstanding shares entitled to vote in the election of the Board, the complete dissolution of the Company, consolidation, merger, or similar transaction involving the Company, the sale of all or substantially all of the assets of the Company or the consolidated assets of the Company and its subsidiaries, a substantial change in the composition of the Board or any change in control as defined in the Hong Kong Code on Takeovers and Mergers, the compensation committee of the Company will determine how to treat each outstanding stock award. The compensation committee of the Company may:

- shorten the period during which the stock options are exercisable;
- accelerate the vesting of the stock options or waive, in whole or in part, any performance conditions to such vesting;
- arrange for the assumption or replacement of stock options by a successor corporation;
- adjust stock options or their replacements so that such stock options are in respect of the shares of stock, securities or other property (including cash) as may be issuable or payable as a result of such transaction;
- cancel the stock option prior to the transaction in exchange for a cash payment, which may be reduced by the exercise price payable in connection with the stock option.

In the event of a change in control that results in a complete liquidation or dissolution of the Company, all outstanding stock options will immediately terminate.

Our 2014 Stock Option Plan will terminate ten years from the date of registration of the Plan with the PRC State Administration of Foreign Exchange, unless it is terminated earlier by the Board. The Board may amend or terminate the 2014 Stock Option Plan at any time. If the Board amends the 2014 Stock Option Plan, it does not need to ask for shareholders approval of the amendment unless required by applicable law.



The Share Consolidation will cause adjustments to the exercise price of such stock options and the number of Ordinary Shares to be issued under the outstanding stock options, pursuant to the terms and conditions of such options and under terms and conditions of the Company's 2014 Stock Option Plan.

#### 2014 Employee Stock Purchase Plan

Our shareholders adopted a 2014 Employee Stock Purchase Plan on June 13, 2013. Purchases are accomplished through participation in discrete offering periods. Our 2014 Employee Stock Purchase Plan is intended to qualify as an employee stock purchase plan under Section 423 of the Internal Revenue Code of 1986, as amended. The number of our Ordinary Shares that may be issued pursuant to the 2014 Employee Stock Purchase Plan and our 2014 Stock Option Plan shall not, in the aggregate, exceed 3,207,377,124 Ordinary Shares prior to the Share Consolidation, representing 6.52% of the issued Ordinary Shares as at December 31, 2017. In no event may the number of Ordinary Shares that may be issued pursuant to any outstanding purchase right granted under this 2014 Employee Stock Purchase Plan or any of our other employee stock purchase plans or any outstanding stock option granted under our 2014 Stock Option Plan or any of our other stock option plans exceed, in the aggregate, thirty percent (30%) of the issued and outstanding Ordinary Shares in issuance from time to time, subject to such changes with respect to such thirty percent (30%) limit that may apply from time to time under the Hong Kong Stock Exchange Listing Rules. All shares purchased under the 2014 Employee Stock Purchase Plan shall be issued in the form of American depository shares. For purposes of determining the number of the Company's Ordinary Shares available under the 2014 Employee Stock Purchase Plan, the issuance of an American depository share is deemed to equal fifty underlying Ordinary Shares.

The Company's compensation committee administers our 2014 Employee Stock Purchase Plan. Our employees generally are eligible to participate in our 2014 Employee Stock Purchase Plan; our compensation committee may impose additional eligibility conditions upon the employees of one of the Company's subsidiaries or exclude employees of a subsidiary from participation. Employees who are 5% stockholders, or would become 5% stockholders as a result of their participation in the Company's 2014 Employee Stock Purchase Plan, are ineligible to participate in the Company's 2014 Employee Stock Purchase Plan. In addition, to comply with the Hong Kong Stock Exchange Listing Rules, unless otherwise allowed under such rules, no employee can be granted a right to purchase American depository shares, or a purchase right under the 2014 Employee Stock Purchase Plan if such purchase right would permit the employee to purchase Ordinary Shares or American depository shares under all employee stock purchase plans or other option plans of the Company granted to the employee in any twelve-month period to exceed one percent (1%) of the then issued and outstanding Ordinary Shares.

Under our 2014 Employee Stock Purchase Plan, eligible employees are able to acquire our American depository shares by accumulating funds through payroll deductions. Our compensation committee determines the maximum amount that any employee may contribute to his or her account under the 2014 Employee Stock Purchase Plan during any calendar year. We also have the right to amend or terminate our 2014 Employee Stock Purchase Plan at any time.

New participants are required to enroll in a timely manner as specified by the Company's compensation committee. Once an employee is enrolled, participation in subsequent offering periods is automatic. The length of each offering period shall be neither shorter than six months nor longer than twenty-seven months. The Company's compensation committee determines the starting and ending date of each offering period. An employee's participation automatically ends upon termination of employment for any reason.



No participant has the right to purchase our American depositary shares in an amount, when aggregated with purchase rights under all our employee stock purchase plans that are also in effect in the same calendar year(s), that has a fair market value of more than \$25,000, determined as of the first day of the applicable purchase period, for each calendar year in which that right is outstanding. On the first business day of each offering period, a participant shall be granted a purchase right, determined by: (i) dividing (A) the product of \$25,000 and the number of calendar years during all or part of which the purchase right shall be outstanding by (B) the fair market value of the American depositary shares on the first business day of the offering period, and (ii) subtracting from the quotient (A) the number of American depositary shares the participant purchased during the calendar year in which the first business day of the applicable offering period occurs under the 2014 Employee Stock Purchase Plan or under any of our other employee stock purchase plans which is intended to qualify under Section 423 of the Code, plus (B) the number of American depositary shares on the first business day of the applicable offering period subject to any outstanding purchase rights granted to the participant under any of our other employee stock purchase plans which is intended to qualify under Section 423 of the Code. If application of this formula would result in the grant of purchase rights covering, in the aggregate, more than the number of American depositary shares that the compensation committee has made available for the relevant offering period, then the compensation committee shall adjust the number of American depositary shares subject to the purchase right in order that, following such adjustment, the aggregate number of American depositary shares subject to the purchase right shall remain within the applicable limit.

The purchase price for shares of our American depositary shares purchased under our 2014 Employee Stock Purchase Plan shall be 85% of the lesser of the fair market value of our American depositary shares on (i) the first business day of the applicable offering period and (ii) the last day of the applicable offering period.

We have not granted any purchase right under our 2014 Employee Stock Purchase Plan so far.

#### 2014 Equity Incentive Plan

We adopted a 2014 Equity Incentive Plan that became effective on November 15, 2013 when the 2014 Equity Incentive Plan was registered with the PRC State Administration of Foreign Exchange. The aggregate number of the Ordinary Shares that may be issued pursuant to the 2014 Equity Incentive Plan may not exceed 801,844,281 Ordinary Shares prior to the Share Consolidation, representing 1.63% of the issued Ordinary Shares as at December 31, 2017. Awards issued under the 2014 Equity Incentive Plan may be issued in the form of Ordinary Shares or American depositary shares. For purposes of determining the number of the Company's Ordinary Shares available under the 2014 Equity Incentive Plan, the issuance of an American depositary share is deemed to equal fifty underlying Ordinary Shares. In addition, the following Ordinary Shares or American depositary shares will again be available again for grant and issuance under the 2014 Equity Incentive Plan:

- Ordinary Shares or American depositary shares subject to stock appreciation rights granted under the 2014 Equity Incentive Plan that cease to be subject to the stock appreciation right for any reason other than exercise of the stock appreciation right;
- Ordinary Shares or American depositary shares subject to awards granted under the Company's 2014 Equity Incentive Plan that are subsequently forfeited at the original issue price; including without limitation Ordinary Shares or American depositary shares withheld from issuance to settle an award and Ordinary Shares or American depositary shares withheld to satisfy the tax withholding obligations related to any award; and
- Ordinary Shares or American depositary shares subject to awards granted under the 2014 Equity Incentive Plan that otherwise terminate or lapse without Ordinary Shares or American depositary shares being issued.



Our 2014 Equity Incentive Plan authorizes the award of restricted share awards (RSAs), stock appreciation rights (SARs), restricted share units (RSUs) and other equity-based or equity-related awards based on the value of our Ordinary Shares. Cash payments based on criteria determined by the compensation committee may also be awarded under the 2014 Equity Incentive Plan.

Our 2014 Equity Incentive Plan will be administered by our compensation committee or by our board of directors acting in place of our compensation committee. The compensation committee will have the authority to construe and interpret the 2014 Equity Incentive Plan, grant awards and make all other determinations necessary or advisable for the administration of the plan.

Our 2014 Equity Incentive Plan will provide for the grant of awards to our employees, officers or other service providers located in China, the United States or elsewhere, or to a trust established in connection with any employee benefit plan of the Company (including the 2014 Equity Incentive Plan) for the benefit of those individuals eligible to participate in the 2014 Equity Incentive Plan.

An RSA is an award of our Ordinary Shares or American depositary shares that are granted for no consideration other than the provision of services (or such minimum payment as may be required under applicable law). The price (if any) of an RSA will be determined by the compensation committee. Unless otherwise determined by the compensation committee at the time of award, vesting will cease on the date the participant no longer provides services to us and unvested shares will be forfeited to or repurchased by us. Performance-based RSAs that vest based on the attainment of one or more performance goals over a period of time that the compensation committee determines may also be awarded under the 2014 Equity Incentive Plan.

Stock appreciation rights provide for a payment, or payments, in cash, Ordinary Shares or American depositary shares, to the holder based upon the difference between the fair market value of our Ordinary Shares or American depositary shares on the date of exercise and the stated exercise price up to a maximum amount of cash or number of Ordinary Shares or American depositary shares. SARs may vest based on time or achievement of performance conditions. The compensation committee may determine whether SARs may be granted alone or in tandem with a stock option granted under the 2014 Stock Option Plan or another award.

Restricted share units represent the right to receive our Ordinary Shares or American depositary shares at a specified date in the future, subject to forfeiture of that right because of termination of employment or failure to achieve certain performance conditions. The price HKD0.031 of an RSA will be determined by the compensation committee. If an RSU has not been forfeited, then on the date specified in the RSU agreement, we will deliver to the holder of the restricted share unit the Ordinary Shares (which may be subject to additional restrictions) or American depositary shares, cash or a combination of the Ordinary Shares and cash or the American depositary shares and cash.

The number and kind of our Ordinary Shares or American depositary shares under the various limits set forth in the 2014 Equity Incentive Plan, the number of outstanding awards and the number and kind of shares subject to any outstanding award and the purchase price per share, if any, under any outstanding award will be equitably adjusted (including by payment of cash to a participant) by the compensation committee of our company in the event of a capitalization issue, rights issue, sub-division or consolidation of shares or reduction of capital in order to preserve, but not increase, the benefits or potential benefits intended to be made available under the 2014 Equity Incentive Plan.

Awards granted under the 2014 Equity Incentive Plan may not be transferred in any manner other than by will or by the laws of descent and distribution, or pursuant to a domestic relations order or as determined by the compensation committee.





Our 2014 Equity Incentive Plan provides that in the event of a change in control, including without limitation a person or entity acquiring beneficial ownership of 35% of our then-outstanding shares entitled to vote in the election of our board of directors, the complete dissolution of the company, consolidation, merger, or similar transaction involving our company, the sale of all or substantially all of the assets of our company or the consolidated assets of our company and our subsidiaries, a substantial change in the composition of our board of directors or any change in control as defined in the Hong Kong Code on Takeovers and Mergers, the compensation committee will determine how to treat each outstanding award. The compensation committee may:

- shorten the period during which the awards may be settled;
- accelerate the vesting of the award or waive, in whole or in part, any performance conditions to such vesting;
- arrange for the assumption or replacement of an award by a successor corporation;
- adjust awards or their replacements so that such awards are in respect of the shares of stock, securities or other property (including cash) as may be issuable or payable as a result of such transaction; or
- cancel the award prior to the transaction in exchange for a cash payment, which may be reduced by the exercise price payable in connection with the award.

In the event of a change in control that results in a complete liquidation or dissolution of the Company, all outstanding awards will immediately terminate.

Our board of directors may amend or terminate our 2014 Equity Incentive Plan at any time. If our board of directors amends our 2014 Equity Incentive Plan, it does not need to ask for stockholder approval of the amendment unless required by applicable law.

The Share Consolidation will cause adjustments to the par value of Ordinary Shares to be received by the relevant grantee on the date of vesting of the relevant award of RSUs and the number of Ordinary Shares to be issued pursuant to the terms and conditions of the awards of unvested RSUs and under the terms and conditions of the Company's Amended and Restated 2014 Equity Incentive Plan.

#### Standard Form of Share Option Plan for Subsidiaries

The following is a summary of the principal terms of a standard form of share option plan involving the grant of options over shares in subsidiaries of the Company which adopt such plan to eligible participants such as employees, directors and service providers of the Group (the "Subsidiary Plan") that was approved by the shareholders at the annual general meeting of the Company held on May 30, 2006.

##### (a) Purpose of the Subsidiary Plan

The purposes of the Subsidiary Plan are to attract, retain and motivate employees and directors of and other service providers to the Group, to provide a means of compensating them through the grant of stock options for their contributions to the growth and profits of the Group, and to allow such employees, directors and service providers to participate in such growth and profitability.

(b) Who may join

The compensation committee of the board of directors of the relevant subsidiary (the “Subsidiary Committee”) may, at its discretion, invite any employee, officer or other service provider of (including, but not limited to, any professional or other adviser of, or consultant or contractor to) the Group whether located in China, the United States or elsewhere to take up options to subscribe for shares (“Subsidiary Shares”) in the relevant subsidiary(ies) which has or have adopted the Subsidiary Plan at a price calculated in accordance with sub-paragraph (e) below. The Subsidiary Committee may also grant stock options to a director who is not an employee of the Company or the relevant subsidiary (“Non-Employee Subsidiary Director”).

(c) Stock Options

Stock options granted under the Subsidiary Plan (“Subsidiary Stock Options”) shall entitle a participant (“Subsidiary Participant”) of the Subsidiary Plan to purchase a specified number of Subsidiary Shares during a specified period at a price calculated in accordance with sub-paragraph (e) below. Three types of Subsidiary Stock Options may be granted under a Subsidiary Plan, an Incentive Stock Option, a Non- Qualified Stock Option or a Subsidiary Director Option. An Incentive Stock Option is a stock option that falls within the meaning of Section 422 of the Code and may only be granted to employees of the Company and its subsidiaries from time to time. A Non- Qualified Stock Option is a stock option that is not an Incentive Stock Option. A Subsidiary Director Option is a Non-Qualified Stock Option granted to a Non-Employee Subsidiary Director.

The relevant subsidiary shall issue an award document to each Subsidiary Participant of the Subsidiary Plan who is granted a Subsidiary Stock Option. The award document shall set out the terms and provisions of the grant of a Subsidiary Stock Option to a Participant including applicable vesting dates or the attainment of specified performance goals (as determined by the Subsidiary Committee or the Subsidiary Administrator (as defined below), as the case may be) by the Subsidiary Participant. The relevant subsidiary may allow a Subsidiary Participant to exercise his or her Subsidiary Stock Options prior to vesting, provided the Subsidiary Participant agrees to enter into a repurchase agreement in respect of the Subsidiary Stock Option with the relevant subsidiary. The Subsidiary Committee may also (i) accelerate the vesting of a Subsidiary Stock Option, (ii) set the date on which any Subsidiary Stock Option may first become exercisable, or (iii) extend the period during which a Subsidiary Stock Option remains exercisable, except that no Subsidiary Stock Options may be exercised after the tenth anniversary of the date of grant.

The Subsidiary Plan does not provide for any payment upon application or acceptance of an option.

(d) Administration of the Subsidiary Plan

The Subsidiary Committee shall be responsible for the administration of the Subsidiary Plan. Its responsibilities include granting Subsidiary Stock Options to eligible individuals, determining the number of Subsidiary Shares subject to each Subsidiary Stock Option, and determining the terms and conditions of each Subsidiary Stock Option. The Subsidiary Committee is not obliged to grant Subsidiary Stock Options to Subsidiary Participants in uniform terms.

Accordingly, the terms and conditions which may be imposed may vary between Subsidiary Participants. Any determination by the Subsidiary Committee in relation to the carrying out and administering of the Subsidiary Plan in accordance with its terms shall be final and binding. No member of the Subsidiary Committee shall be liable for any action or determination made in good faith, and the members of the Subsidiary Committee shall be entitled to indemnification and reimbursement in the manner provided in the articles of association, by-laws or other equivalent constitutional document of the relevant subsidiary.



The Subsidiary Committee may delegate some or all of its authority under the Subsidiary Plan to an individual or individuals (each a "Subsidiary Administrator") who may either be one or more of the members of the Subsidiary Committee or one or more of the officers of the Company or relevant subsidiaries. An individual's status as a Subsidiary Administrator shall not affect his or her eligibility to participate in the Subsidiary Plan. The Subsidiary Committee shall not delegate its authority to grant Subsidiary Stock Options to executive officers of the Company or its subsidiaries.

(e) Exercise Price

The exercise price per Subsidiary Share purchasable under a Subsidiary Stock Option shall be fixed by the Subsidiary Committee at the time of grant or by a method specified by the Subsidiary Committee at the time of grant, but, subject always to and in accordance with applicable requirements of the Hong Kong Stock Exchange Listing Rules or permission of the Hong Kong Stock Exchange:

- (i) in the case of an Incentive Stock Option:
  - (1) granted to a Ten Percent Holder (as defined below), the exercise price shall be no less than 110% of the Fair Market Value per Subsidiary Share on the date of grant; and
  - (2) granted to any other Subsidiary Participant, the exercise price shall be no less than 100% of the Fair Market Value per Subsidiary Share on the date of grant; and.
- (ii) in the case of any Subsidiary Stock Option:
  - (1) granted to a Ten Percent Holder who is a resident of the State of California, the exercise price shall be no less than 110% of the Fair Market Value per Subsidiary Share on the date of grant; and
  - (2) granted to any other Subsidiary Participant who is a resident of the State of California, the exercise price shall be no less than 85% of the Fair Market Value per Subsidiary Share on the date of grant.

A Ten Percent Holder is any Participant who owns more than 10% of the total combined voting power of all classes of outstanding securities of the relevant subsidiary or any parent or subsidiary (as such terms are defined in and determined in accordance with the Code) of the relevant subsidiary.

Fair Market Value shall be determined as follows:

- (i) If the Subsidiary Shares are listed on any established stock exchange or a national market system, including without limitation the NYSE, The Nasdaq Global Market or The Nasdaq Capital Market of The Nasdaq Stock Market, its Fair Market Value shall be the closing sales price for such Subsidiary Shares (or the closing bid, if no sales were reported) as quoted on such exchange or system on the day of determination, as reported in The Wall Street Journal or such other source as the Administrator deems reliable;
- (ii) If the Subsidiary Shares are regularly quoted by a recognized securities dealer but selling prices are not reported, its Fair Market Value shall be the mean between the high bid and low asked prices for the Subsidiary Shares on the day of determination, as reported in The Wall Street Journal or such other source as the Administrator deems reliable; or
- (iii) In the absence of an established market for the Subsidiary Shares, the Fair Market Value thereof shall be determined in good faith by the Subsidiary Committee in accordance with any applicable law, rule or regulation.

(f) Limit of the Subsidiary Plan

The number of Subsidiary Shares that may be issued under the Subsidiary Plan and all other schemes of the relevant subsidiary involving the grant by such subsidiary of options over or other similar rights to acquire new shares or other new securities of such subsidiary (“Other Schemes”) shall not exceed ten percent of the issued and outstanding Subsidiary Shares of such subsidiary on the date of approval of the Subsidiary Plan by the board of directors of the relevant subsidiary (the “Subsidiary Board”).

The number of Subsidiary Shares which may be issued pursuant to any outstanding Subsidiary Stock Options granted and yet to be exercised under the Subsidiary Plan and all Other Schemes of the relevant subsidiary must not exceed in aggregate 30 percent of the issued and outstanding Subsidiary Shares of the relevant subsidiary in issuance from time to time.

(g) Individual Limit

The total number of Subsidiary Shares underlying Subsidiary Stock Options or other options granted by the relevant subsidiary to a Subsidiary Participant (including both exercised and outstanding Subsidiary Stock Options) in any twelve-month period may not exceed at any time one percent (1%) (or 0.1 percent in the case of an independent non-executive Director of the Company) of the then issued and outstanding Subsidiary Shares unless otherwise allowed under the Hong Kong Stock Exchange Listing Rules.

(h) Exercise of Option

A Subsidiary Stock Option shall vest, and be exercised, in accordance with the terms of the Subsidiary Plan, the relevant award document and any rules and procedures established by the Subsidiary Committee for this purpose. However, the term of each Subsidiary Stock Option shall not exceed ten years from the date of grant, provided that any Incentive Stock Option granted to a Ten Percent Holder shall not by its terms be exercisable after the expiration of five(5) years from the date of grant.

(i) Director Options

Each Non-Employee Subsidiary Director may be granted Subsidiary Stock Options to purchase Subsidiary Shares on the terms set out in the relevant award document.

The directors shall exercise all authority and responsibility with respect to Subsidiary Stock Options granted to directors subject to the requirements of the Hong Kong Stock Exchange Listing Rules.

All Non-Employee Subsidiary Directors’ Subsidiary Stock Options shall only vest provided that the director has remained in service as a director through such vesting date. The unvested portion of a Subsidiary Stock Option granted to a director shall be forfeited in full if the director’s service with the Company or the relevant subsidiary ends for any reason prior to the applicable vesting date.

Following termination of a Non-Employee Subsidiary Director’s service on the Subsidiary Board, such Non-Employee Subsidiary Director (or his or her estate, personal representative or beneficiary, as the case may be) shall be entitled to exercise those of his or her Subsidiary Stock Options which have vested as of the date of such termination within 120 days following such termination.

(j) Termination or Lapse of Option

A Subsidiary Stock Option shall terminate or lapse automatically upon:

- (i) the expiry of ten years from the date of grant;



- (ii) the termination of a Subsidiary Participant's employment or service with the relevant subsidiary for a reason set out in sub-paragraph (l) below;
  - (iii) the liquidation or dissolution of the relevant subsidiary, in which case all Subsidiary Stock Options outstanding at the time of the liquidation or dissolution shall terminate without further action by any person save as to any contrary directions of the Subsidiary Committee with the prior approval of the Board of Directors of the Company;
  - (iv) the sale or other divestiture of a subsidiary, division or operating unit of the Company (where the Subsidiary Participant is employed by such subsidiary, division or operating unit); and
  - (v) termination of the service relationship with a service provider (where the Subsidiary Participant is a service provider of the relevant subsidiary).
- (k) Rights are Personal to Subsidiary Participant

A Subsidiary Stock Option is personal to the Subsidiary Participant and shall be exercisable by such Subsidiary Participant or his Permitted Transferee (as defined below) only. A Subsidiary Option shall not be transferred other than by will, by the laws of descent and distribution or pursuant to a domestic relations order. The Subsidiary Committee may also, at its discretion and subject to such terms and conditions as it shall specify, permit the transfer of a Subsidiary Stock Option for no consideration to a Subsidiary Participant's family members or to a trust or partnership established for the benefit of such family members (collectively "Permitted Transferees"). Any Subsidiary Stock Option transferred to a Permitted Transferee shall be further transferable only by will or the laws of descent and distribution or, for no consideration, to another Permitted Transferee of the Subsidiary Participant.

(l) Termination of Employment or Service

If a Subsidiary Participant's employment or service with the relevant member(s) of the Group is terminated for the following reasons:

- (i) the failure or refusal of the Subsidiary Participant to substantially perform the duties required of him or her as an employee or officer of, or service provider to, the relevant member(s) of the Group;
- (ii) any material violation by the Subsidiary Participant of any law or regulation applicable to any business of any relevant member(s) of the Group, or the Subsidiary Participant's conviction of, or a plea of nolo contendere to, a felony, or any perpetration by the Subsidiary Participant of a common law fraud against any relevant member(s) of the Group; or
- (iii) any other misconduct by the Subsidiary Participant that is materially injurious to the financial condition, business or reputation of the Group, then all Subsidiary Stock Options granted to the Subsidiary Participant, whether or not then vested, shall immediately lapse.

The Subsidiary Committee may permit any Incentive Stock Option to convert into a Non-Qualified Stock Option as of a Subsidiary Participant's termination of employment for purposes of providing such Subsidiary Participant with the benefit of any extended exercise period applicable to Non-Qualified Stock Options when the contract of employment of the holder of Incentive Stock Option terminates.

(m) Change in Control of the Subsidiary

The Subsidiary Committee must seek the prior approval of the Board of Directors of the Company and may, subject to such prior approval by the Board of Directors of the Company, specify at or after the date of grant of a Subsidiary Stock Option the effect that a Change in Control (as defined in the Subsidiary Plan) will have on such Subsidiary Stock Option. The Subsidiary Committee may also, subject to such prior approval by the Board of Directors of the Company, in contemplation of a Change in Control, accelerate the vesting, exercisability or payment of Subsidiary Stock Options to a date prior to the Change in Control, if the Subsidiary Committee determines that such action is necessary or advisable to allow the participants to realize fully the value of their share options in connection with such Change in Control.

(n) Change in the Capital Structure of the Subsidiary

In the event of an alteration in the capital structure of the relevant subsidiary (which includes a capitalization issue, reduction of capital, consolidation, sub-division of Subsidiary Shares, or rights issue to purchase Subsidiary Shares at a price substantially below market value), the Subsidiary Committee may equitably adjust the number and kind of Subsidiary Shares authorized for issuance in order to preserve, the benefits or potential benefits intended to be made available under the Subsidiary Plan. In addition, upon the occurrence of any of the foregoing events, the number of outstanding Subsidiary Stock Options and the number and kind of shares subject to any outstanding Subsidiary Stock Option and the purchase price per share under any outstanding Subsidiary Stock Option shall be equitably adjusted so as to preserve the benefits or potential benefits intended to be made available to Subsidiary Participants.

(o) Period of the Subsidiary Plan

The form of the Subsidiary Plan shall be approved by the shareholders of the Company and of the relevant subsidiary respectively, and shall become effective upon its approval by the Subsidiary Board in accordance with the terms thereof. Each Subsidiary Plan shall remain in force for a period of ten years commencing on the date of Subsidiary Board approval of the relevant Subsidiary Plan.

(p) Amendments and Termination

The Subsidiary Plan may be changed, altered, amended in whole or in part, suspended and terminated by the Subsidiary Board, subject to such prior approval by the Board of Directors of the Company, at any time provided alterations or amendments of a material nature or any change to the terms of the Subsidiary Stock Options granted, or any change to the authority of the Subsidiary Board or the Subsidiary Committee in relation to any alteration to the terms of the Subsidiary Plan, must be approved by the shareholders of the Company, unless such change, alteration or amendment takes effect automatically under the terms of the Subsidiary Plan. For the avoidance of doubt, any change, alteration or amendment pursuant to the exercise of any authority granted under a Subsidiary Plan shall be deemed to take effect automatically under the terms of the relevant Subsidiary Plan. Any change, alteration or amendment must be in accordance with the requirements of the Hong Kong Stock Exchange Listing Rules or permitted by the Hong Kong Stock Exchange.

The Subsidiary Board may, subject to prior approval by the Board of Directors of the Company, at any time and from time to time make such changes, alterations or amendments to the Subsidiary Plan as may be necessary or desirable, including (without limitation) changes, alterations or amendments:

- (i) relating to local legal, regulatory and/or taxation requirements and/or implications applicable to the relevant subsidiary and/or Eligible Participants; and/or





(ii) for the purposes of clarification, improvement or facilitation of the interpretation, and/or application of the terms of the Subsidiary Plan and/or for the purposes of improving or facilitating the administration of the Subsidiary Plan, and other changes, alterations or amendments of a similar nature.

If the Subsidiary Plan is terminated early by the Subsidiary Board, subject to prior approval by the Board of Directors of the Company, no further Subsidiary Stock Options may be offered but unless otherwise stated in the Subsidiary Plan. Subsidiary Stock Options granted before such termination shall continue to be valid and exercisable in accordance with the Subsidiary Plan.

(q) Voting and Dividend Rights

No voting rights shall be exercisable and no dividends shall be payable in relation to Subsidiary Stock Options that have not been exercised.

(r) Cancellation of Subsidiary Stock Options

If the relevant subsidiary is or becomes a public company (within the meaning of the Hong Kong Code on Takeovers and Mergers), then in the case of a Change in Control of the relevant subsidiary, Subsidiary Stock Options granted but not exercised may not be cancelled unless an offer or proposal in respect of the Subsidiary Stock Options has, where applicable, been made pursuant to Rule 13 of The Hong Kong Code on Takeovers and Mergers and the Hong Kong Securities and Futures Commission has consented to such cancellation.

(s) Ranking of Subsidiary Shares

The Subsidiary Shares to be allotted upon the exercise of a Subsidiary Stock Option will be subject to the then effective articles of association (or equivalent constitutional document) of the relevant subsidiary and will rank pari passu with the Subsidiary Shares in issue on the date of such allotment.

The Subsidiary Plans, under which no more than 56,666,666 Subsidiaries Shares can be issued, representing 10.00% of outstanding Subsidiaries Shares as at December 31, 2017, will be administered by the relevant Subsidiary Committees and no other trustee is expected to be appointed in respect of any Subsidiary Plan.

SJ Semiconductor Corporation, which is a majority-owned subsidiary of the Company, has adopted the Subsidiary Plan.

## Item 7. Major Shareholders and Related Party Transactions

### A. Major Shareholders

#### Ordinary Shares

The following table sets forth information regarding the beneficial ownership of our Ordinary Shares as of December 31, 2017, by each shareholder who is known by us to beneficially own 5% or more of our outstanding ordinary shares as of such date.

Name of Shareholder	Nature of Interest	Long/Short Position	Number of Ordinary Shares Held	Percentage of Issued Share Capital of the Company(1)	Derivative Financial Interests(5)	Percentage of Total Interests to Total Issued Share Capital of the Company(1)
Datang Telecom Technology & Industry Holdings Co., Ltd.	Interest of corporation controlled	long position	797,996,122	16.23 %	—	16.23 %
China IC Fund	Interest of corporation controlled	long position	740,000,000	15.05 %	—	15.05 %
Tsinghua University	Interest of corporation controlled	long position	363,345,100	7.39 %	—	7.39 %
Zhao Weiguo	Interest of corporation controlled	long position	363,345,100	7.39 %	—	7.39 %

## Notes:

- (1) Based on 4,916,106,889 Ordinary Shares in issue as at December 31, 2017.
- (2) All such Ordinary Shares are held by Datang Holdings (Hongkong) Investment Company Limited which is a wholly-owned subsidiary of Datang Telecom Technology & Industry Holdings Co., Ltd.
- (3) All such Ordinary Shares are held by Xinxin (Hongkong) Capital Co., Ltd, a wholly-owned subsidiary of Xinxin (Shanghai) Investment Co., Ltd., which in turn is wholly-owned by China IC Fund.
- (4) Tsinghua University holds 363,345,100 Ordinary Shares in long position through Tsinghua Unigroup Co., Ltd. (a 51% indirectly held subsidiary of Tsinghua University and a 49% indirectly held subsidiary of Zhao Weiguo) and another corporation controlled by it.
- (5) These interests have been adjusted upon the Share Consolidation taking effect from December 7, 2016 on the basis of consolidating every ten ordinary shares of US\$0.0004 each into one ordinary share of US\$0.004 each.

## B. Related Party Transactions

The following disclosure is for the purpose of fulfilling disclosure requirements pursuant to the rules and regulations promulgated pursuant to the Exchange Act only, and may contain disclosure of related party transactions not required to be disclosed in our financial statements under IFRS.

Director Service Contracts

We have entered into service contracts with indemnification provisions with each of our current directors. Except for the indemnification provisions, the service contracts as stated in the preceding sentence do not provide for benefits upon termination of service or employment.

Grant of Restricted Share Units to Dr. Chiu, Dr. Chiang, Dr. Chen, Dr. Tan, Dr. Tong and Dr. Cong

At meetings of the Board held on December 20, 2016 and February 14, 2017 respectively, the Board resolved to grant 2,796,818 RSUs (the “Proposed RSU Grants”) under the 2014 Equity Incentive Plan, approved by the independent shareholders at the annual general meeting.

Among the 2,796,818 RSUs, 2,109,318 RSUs were granted to Dr. Tzu-Yin Chiu (the then Chief Executive Officer of the Company and an Executive Director), 62,500 RSUs were granted to Dr. Chen Shanzhi (a non-Executive Director), 62,500 RSUs were granted to Mr. Lip-Bu Tan (an Independent Non- Executive Director), 187,500 RSUs were granted to Dr. Shang-yi Chiang (an Independent Non-Executive Director), 187,500 RSUs were granted to Dr. Tong Guohua (a non-Executive Director) and 187,500 RSUs were granted to Dr. Jason Jingsheng Cong (an Independent Non-Executive Director). Each of the RSUs granted to Dr. Chiu, Dr. Chen, and Mr. Tan represents the right to receive an ordinary share on the date it vests, and it is intended that such RSUs would vest immediately upon their grant. Each of the RSUs to be granted to Dr. Chiang, Dr. Tong and Dr. Cong represents the right to receive an ordinary share on the date it vests, and it is intended that such RSUs would vest over a period of three years at the rate of 33%, 33% and 34% for each 12-month period commencing on the date on which the relevant director commenced his term of office as director. In accordance with the terms of the 2014 Equity Incentive Plan, the Proposed RSU Grants are intended to be made for no consideration, other than the minimum payment required by the applicable law in the Cayman Islands (which is the par value of the ordinary shares to be issued pursuant thereto).

The grant of 2,796,818 RSUs and any transactions contemplated thereunder constitutes non-exempt connected transaction of the Company under Chapter 14A of the Hong Kong Listing Rules and thus subject to reporting, announcement and the independent shareholders' approval requirements of Chapter 14A of the Hong Kong Listing Rules. In accordance with the Hong Kong Listing Rules, an Independent Board Committee was established to advise and provide recommendation to the independent shareholders in respect of the Proposed RSU Grants and any transactions contemplated thereunder and to advise the independent shareholders on how to vote. The proposed RSU Grants and the transactions were approved by the independent shareholders at the annual general meeting of the Company held on June 23, 2017.

#### Grant of RSUs to Dr. Tzu-yin Chiu

At a meeting of the Board held on May 10, 2017, the Board resolved to grant to Dr. Tzu-yin Chiu (the then Chief Executive Officer of the Company and an Executive Director) 1,054,659 RSUs (the "Proposed Grant") under the 2014 Equity Incentive Plan. Each of the RSUs to be granted to Dr. Chiu represents the right to receive an ordinary share on the date it vests, and it is intended that such RSUs would vest on June 30, 2017, being the date on which Dr. Chiu would complete his term as an advisor to the Company during the transitional period of the change in Chief Executive Officer following his stepping down as Chief Executive Officer of the Company on May 10, 2017. In accordance with the terms of the 2014 Equity Incentive Plan, the Proposed Grant is intended to be made for no consideration, other than the minimum payment required by the applicable law in the Cayman Islands (which is the par value of the ordinary shares to be issued pursuant thereto).

The grant of 1,054,659 RSUs and any transactions contemplated thereunder constitutes non-exempt connected transaction of the Company under Chapter 14A of the Hong Kong Listing Rules. The proposed Grant and the transactions were approved by the independent shareholders at the extraordinary general meeting of the Company held on September 29, 2017.

#### Capital Contribution to a Joint Venture Company — Sino IC Leasing Co., Ltd.

The Company entered into a joint venture agreement on October 15, 2015 with China Integrated Circuit Industry Investment Fund Co., Ltd. ("China IC Fund") and its sole manager, Sino IC Capital Co., Ltd. ("Sino IC Capital"), as well as seven other independent third parties to establish a joint venture company, Sino IC Leasing Co., Ltd. (the "Joint Venture Company"/"Sino IC Leasing") in the PRC.



On July 20, 2017, the Company, China IC Fund, Sino IC Capital, and thirteen other independent third parties agreed to amend the previous joint venture agreement through the Amendment JV Agreement, pursuant to which: (i) the Company has agreed to increase its capital contribution obligation towards the Joint Venture Company from RMB0.60 billion to RMB0.80 billion (of which RMB792,075,000 should be paid into its registered capital and RMB7,925,000 should be paid into its capital reserves) while its shareholding in the Joint Venture Company will decrease from approximately 10.56% to approximately 7.44%; and (ii) China IC Fund has agreed to increase its capital contribution obligation towards the Joint Venture Company from RMB2.00 billion to RMB3.50 billion (of which RMB3,440,562,000 should be paid into its registered capital and RMB59,438,000 should be paid into its capital reserves) while its shareholding in the Joint Venture Company will decrease from approximately 35.21% to approximately 32.31%.

The above parties' performance of their capital contribution obligations would lead to an increase in the registered capital of the Joint Venture Company from RMB5.68 billion to approximately RMB10.65 billion and an increase in the capital reserves of the Joint Venture Company from 0 to RMB205.06 million .

Taking into account of the development needs of the industry and the Joint Venture Company's need to increase its asset scale and industry influence, the Company considers that increasing its capital commitment to the Joint Venture Company is beneficial to the Company to create a favourable financial environment to expand its financing channels and enhance its financial returns. The Directors (including the independent non-executive Directors) believe that the terms of the Amendment JV Agreement are fair and reasonable, and the entering into of the Amendment JV Agreement and the transactions contemplated thereunder are on normal commercial terms, in the ordinary and usual course of business of the Group and in the interests of the Company and its shareholders as a whole.

No Director is considered to have a material interest in the Amendment JV Agreement which would have required the Director to abstain from voting at the board meeting authorising the Amendment JV Agreement.

As China IC Fund holds approximately 15.91% equity interest in the Company through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company under the Listing Rules. The Amendment JV Agreement constitutes a connected transaction of the Company .

#### Provisions of Guarantees

On December 21, 2016, SMIC Beijing, a wholly-owned subsidiary of the Company, entered into the two guarantee agreements with Sino IC Leasing Tianjin Co., Ltd. ("Sino IC Leasing (Tianjin)") to provide guarantees of an aggregate amount of approximately US\$59,583,000 in favour of Sino IC Leasing (Tianjin) in respect of the payment obligations of SMNC under certain lease agreements.

On March 16, 2017, SMIC Beijing entered into these guarantee agreements (the "March Guarantee Agreements") with Sino IC Leasing (Tianjin) to provide guarantees of an aggregate amount of approximately \$65,882,000 in favour of Sino IC Leasing (Tianjin) in respect of the payment obligations of SMNC under certain lease agreements.

On July 31, 2017, the Company entered into these guarantee agreements (the "July Guarantee Agreements") with Xincheng Leasing (Tianjin) Co., Ltd. ("Xin Cheng Leasing") or Xindian Leasing (Tianjin) Co., Ltd. ("Xin Dian Leasing") (as the case may be) to provide guarantees of an aggregate amount of approximately US\$125,492,000 in favour of Xin Cheng Leasing or Xin Dian Leasing (as the case may be) in respect of the payment obligations of SMNC under certain lease agreements.





The Company believes that the entering into of the March and July Guarantee Agreements will lower the funding cost of SMNC and enable SMNC to lease the relevant machinery to support its normal operations and production. The Directors (including the independent non-executive Directors) are of the view that the terms of the March and July Guarantee Agreements are fair and reasonable, that the entering into of the March and July Guarantee Agreements is on normal commercial terms, in the ordinary and usual course of business of the Group and in the interests of the Company and its shareholders as a whole.

As China IC Fund holds approximately 15.91% equity interest in the Company through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company at the issuer level under the Listing Rules. China IC Fund also holds approximately 35.21% equity interest in Sino IC Leasing, therefore Sino IC Leasing is a connected person of the Company under the Listing Rules by virtue of being an associate of a connected person of the Company as defined under Rule 14A.13 of the Listing Rules. Sino IC Leasing (Tianjin) is a wholly-owned subsidiary of Sino IC Leasing and also a connected person of the Company. Each of Xin Cheng Leasing and Xin Dian Leasing is a wholly-owned subsidiary of Sino IC Leasing (Tianjin) and also a connected person of the Company.

In addition, as China IC Fund holds approximately 26.50% equity interest in SMNC, SMNC is a connected subsidiary of the Company as defined under Rule 14A.17 of the Listing Rules as well as a commonly held entity as defined under Rule 14A.27 of the Listing Rules. Accordingly, the March and July Guarantee Agreements constitute the connected transactions of the Company.

#### Proposed Capital Contribution in a Joint Venture in Beijing

On June 3, 2013, the Company entered into a joint venture agreement with SMIC Beijing, Beijing Industrial Development Investment Management Co. Ltd. (“IDIMC”) and ZDG in relation to the establishment of a joint venture company. SMNC principally engages in, among other things, the testing, development, design, manufacturing, packaging and sale of integrated circuits.

On May 10, 2016, the Company, SMIC Beijing, China IC Fund, Beijing Semiconductor Manufacturing and Equipment Equity Investment Center (“Beijing Semi Fund”), IDIMC and ZDG amended the previous joint venture agreement through the amended and restated joint venture agreement, pursuant to which: (i) the Company and SMIC Beijing’s outstanding aggregate capital contribution obligations as contained in the previous joint venture agreement would decrease from US\$804.38 million to US\$708.38 million as their aggregate shareholding in SMNC would decrease from 55% to 51%; and (ii) China IC Fund would make cash contribution of US\$636 million into the registered capital of SMNC. The above parties’ performance of their capital contribution obligations would lead to an increase in the registered capital of SMNC from US\$1.2 billion to US\$2.4 billion.

On August 10, 2017, the Company, SMIC Beijing, China IC Fund, Beijing Semi Fund, IDIMC, ZDG, SMIC Holdings Corporation (“SMIC Holdings”) and E-Town Capital have agreed to amend the previous joint venture agreement through the amended and restated joint venture agreement, pursuant to which: (i) the Company, SMIC Beijing and SMIC Holdings have agreed to make further cash contribution of US\$1,224 million into the registered capital of SMNC. Their outstanding aggregate capital contribution obligations as contained in the previous joint venture agreement will increase from nil to US\$1,224 million. Their aggregate shareholding in SMNC will remain at 51%; (ii) China IC Fund has agreed to make further cash contribution of US\$900 million into the registered capital of SMNC. Its shareholding in SMNC will increase from 26.5% to 32%; and (iii) E-Town Capital has agreed to make cash contribution of US\$276 million into the registered capital of SMNC representing 5.75% of the enlarged registered capital of SMNC. The above parties’ performance of their capital contribution obligations will lead to an increase in the registered capital of SMNC from US\$2.4 billion to US\$4.8 billion. .

On August 10, 2017, the Company, SMIC Beijing, China IC Fund, Beijing Semi Fund, IDIMC, ZDG, SMIC Holdings, E-Town Capital and SMNC also entered into the Capital Increase Agreement to carry out the proposed capital contribution.

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As China IC Fund mainly invests in the value chain of integrated circuit industry via various approaches, primarily in IC chip manufacturing as well as chip designing, packaging test and equipment and materials, the Company believes that such partnership will capture more business opportunities.

The Directors (excluding independent non-executive Directors) consider that it is in the best interests of the Company and the shareholders as a whole to enter into the Amendment JV Agreement, the Capital Increase Agreement and the transactions contemplated thereunder; the terms of the Amendment JV Agreement and the Capital Increase Agreement are fair and reasonable; and the entering into of the Amendment JV Agreement, the Capital Increase Agreement and transactions contemplated thereunder are on normal commercial terms or better, in the ordinary and usual course of business of the Group and in the interests of the Company and the shareholders as a whole.

As China IC Fund holds approximately 15.91% equity interest in the Company through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company under the Listing Rules. As Beijing Semi Fund holds approximately 18% equity interest in SMNC, a subsidiary of the Company, it is a connected person at the subsidiary level of the Company under the Listing Rules. The Company's entering into the Amendment JV Agreement and the Capital Increase Agreement with, amongst others, China IC Fund and Beijing Semi Fund constitutes a connected transaction under Chapter 14A of the Listing Rules. China IC Fund's further cash contribution of US\$900 million into the registered capital of SMNC, a subsidiary of the Company, also constitutes a connected transaction under Chapter 14A of the Listing Rules.

The above transactions were approved by the independent shareholders of the Company at the extraordinary general meeting of the Company held on September 29, 2017.

#### RSUs Grant to Dr. Zhao and Dr. Chiu

At meetings of the Board held on May 10, 2017 and August 8, 2017 respectively, the Board resolved to grant 1,875,000 RSUs (the "RSU Grants") under the 2014 Equity Incentive Plan. Among the 1,875,000 RSUs, 1,687,500 RSUs were granted to Dr. Haijun Zhao (the then Chief Executive Officer of the Company) and 187,500 RSUs were granted to Dr. Tzu-Yin Chiu (the Vice Chairman of the Company and non-Executive Director). Each of the RSUs granted to Dr. Zhao and Dr. Chiu represents the right to receive an ordinary share on the date it vests. It is intended that the RSUs granted to Dr. Zhao will vest over one year commencing on the date on which Dr. Zhao commenced his term of office as chief executive officer and the RSUs granted to Dr. Chiu will vest over a period of three years at the rate of 33%, 33% and 34% for each 12-month period commencing on the date on which Dr. Chiu commenced his term of office as non-executive director.

In accordance with the terms of the 2014 Equity Incentive Plan, the RSU Grants are intended to be made for no consideration, other than the minimum payment required by the applicable law in the Cayman Islands (which is the par value of the ordinary shares to be issued pursuant thereto).

The grant of 1,875,000 RSUs and any transactions contemplated thereunder constitutes non-exempt connected transaction of the Company under Chapter 14A of the Hong Kong Listing Rules. The RSU Grant and the transactions were approved by the independent shareholders at the extraordinary general meeting of the Company held on September 29, 2017.

### Subscription of Shares and Perpetual Subordinated Convertible Securities by China IC Fund and Datang

On November 29, 2017, the Company entered into a placing agreement (the “Placing Agreement”) with J.P. Morgan Securities plc and Deutsche Bank AG, Hong Kong Branch (the “Joint Placing Agents”) pursuant to which the Company conditionally agreed to place, through the Joint Placing Agents, 241,418,625 Shares (the “Placing Shares”) to not less than six independent placees at a price of HK\$10.65 per Placing Share. The Placing Shares will be allotted and issued pursuant to the general and unconditional mandate granted to the Directors by passing a resolution of the Shareholders at the annual general meeting of the Company held on June 23, 2017 to exercise the power of the Company to allot and issue up to 20% of the issued share capital of the Company as at the date of passing such resolution. The issue of the Placing Shares is not subject to the approval of the Shareholders. The placing shares will rank pari passu in all aspects with the ordinary shares of the Company.

On November 29, 2017, the Company and the Barclays Bank PLC, Deutsche Bank AG, Hong Kong Branch and J.P. Morgan Securities Plc (the “Joint Managers”) entered into a subscription agreement (the “Placed PSCS Subscription Agreement”), pursuant to which each of the Joint Managers has agreed to subscribe and pay for, or to procure subscribers to subscribe and pay for the perpetual subordinated convertible securities of an aggregate principal amount of US\$65 million issued by the Company (the “Placed PSCS”).

On December 6, 2017, all the conditions set out in the Placing Agreement had been fulfilled and completion of the Placing took place. Pursuant to the terms and conditions of the Placing Agreement, the Company allotted and issued 241,418,625 Placing Shares, representing approximately 4.92% of the issued share capital of the Company as enlarged by the issue of the Placing Shares, to not less than six independent Placees at the price of HK\$10.65 per Placing Share.

On December 14, 2017, all the conditions set out in the Placed PSCS Subscription Agreement had been fulfilled and completion of the issue of the Placed PSCS in the principal amount of US\$65 million took place.

On December 14, 2017, pursuant to the share purchase agreement dated November 6, 2008 between the Company and Datang Telecom Technology & Industry Holdings Co., Ltd., a company established under PRC laws (“Datang”) (the “Datang Purchase Agreement”), Datang has delivered a notice to the Company that it will exercise its pre-emptive right in relation to the issue of the Placing Shares, the Placed PSCS, the potential subscription of securities by China IC Fund pursuant to the exercise of its pre-emptive right under the share purchase agreement dated February 12, 2015 between the Company and China IC Fund (the “China IC Fund Agreement”) and the potential subscription of perpetual subordinated convertible securities by China IC Fund. Details can be found on the announcement of the Company dated December 14, 2017.

On December 14, 2017, pursuant to the China IC Fund Agreement, China IC Fund has delivered a notice to the Company that it will exercise its pre-emptive right in relation to the issue of the Placing Shares, the Placed PSCS, the potential subscription of securities by Datang pursuant to the exercise of its pre-emptive right under the Datang Purchase Agreement and the potential subscription of perpetual subordinated convertible securities by Datang. Details can be found on the announcement of the Company dated December 14, 2017.

As each of Datang and China IC Fund is a substantial shareholder of the Company and thus a connected person of the Company, the potential subscription by Datang as indicated above and the potential subscription by China IC Fund as indicated above will constitute connected transactions of the Company and will be subject to independent shareholders’ approval under the Listing Rules. The Company will make such further announcement(s) as necessary if any agreement(s) is/are entered into by the Company with Datang or China IC Fund regarding the above matters.

As of the date of this report, there is no agreement(s) entered into by the Company with Datang or China IC Fund regarding the above matters.

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#### Assets Transfer Agreement with SJ Semiconductor (Jiangyin) Corporation

On December 29, 2017, SMIC Shanghai and SJ Semiconductor (Jiangyin) Corporation (“SJSemi”) had entered into the asset transfer agreement in relation to the disposal of Valued Assets (defined below) (“Asset Transfer Agreement”). The purpose of the transaction was to transfer the business operation of the Shanghai Testing Centre from SMIC Shanghai to SJSemi and merge the business operation of Shanghai Testing Centre to SJSemi. The consideration for the Disposal shall be US\$20 million.

The Valued Assets comprise of tangible assets and intangible assets of the Shanghai Testing Centre. The tangible assets include the physical assets that SMIC Shanghai owns or use, which primarily include, among others, machineries and equipment, jigs and documents. The intangible assets include the intellectual property, business secret, business related customer purchase order, business information, operational process and the right to use the workplace and other relevant rights owned or used by SMIC Shanghai. The Valued Assets have been valued by third party valuation institution. The Unvalued Assets comprise of certain tangible assets that do not form part of the Disposal.

SMIC Shanghai had entered into the Assets Transfer Agreement in order to integrate the Group’s business and to optimize its resources. Such transaction will also enhance and realize the specialization and scale of development for the testing function in SJSemi, and conform with the business positioning and strategic planning for SJSemi.

As China IC Fund holds approximately 15.06% equity interest in the Company through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited as at the timing of entering this agreement, it is a substantial shareholder (as defined in the Listing Rules) of the Company and thus a connected person of the Company at the issuer level under the Listing Rules. China IC Fund invested and holds approximately 29.39% equity interest in SJSemi; SJSemi is therefore a connected subsidiary of the Company as defined under Rule 14A.16 of the Listing Rules and thus a connected person of the Company under the Listing Rules. Accordingly, the Assets Transfer Agreement and the transactions contemplated thereunder constitute connected transactions of the Company.

#### Disposal Agreement and Subscription Agreement

On April 27, 2016, Siltech Semiconductor (Shanghai) Corporation Limited (“SilTech Shanghai”) (an indirectly wholly-owned subsidiary of the Company) and Jiangsu Changjiang Electronics Technology Co., Ltd. (“JCET”) entered into a disposal agreement (the “Disposal Agreement”), pursuant to which SilTech Shanghai agreed to sell its 19.61% equity interest in Suzhou Changdian Xinke Investment Co., Ltd. (“Holdco A”) (a company incorporated by JCET under PRC laws and owned by JCET, SilTech Shanghai and China IC Fund as to 50.98%, 19.61% and 29.41% respectively at the time of entering into the Disposal Agreement) to JCET in consideration of RMB664 million, to be satisfied by JCET’s issue of 43,229,166 A shares to SilTech Shanghai at RMB15.36 per A share.

On April 27, 2016, SilTech Shanghai and JCET entered into a subscription agreement (the “Subscription Agreement”). Pursuant to the Subscription Agreement, SilTech Shanghai agreed to subscribe for and JCET agreed to issue 150,681,044 A shares at RMB17.62 per A share in consideration of an aggregate subscription price of RMB2,655 million in cash.

Immediately upon completion of both the Disposal Agreement and the Subscription Agreement, the Company (through SilTech Shanghai) would hold 193,910,210 A shares of JCET in total (subject to any necessary adjustment) representing 14.26% shareholding interest in JCET and 14.26% attributable equity interest in Holdco A assuming that completion of a separate agreement between China IC Fund and JCET involving the disposal of China IC Fund of its

equity interest in certain companies to JCET in consideration of 129,622,395 A shares in JCET has taken place. The Company is expected to become the single largest shareholder of JCET after completion of the Disposal Agreement and the Subscription Agreement.

The Disposal Agreement and the Subscription Agreement constitute a strategic investment which reflects the current industry trend and customers' requests for greater integration between front-end and back-end IC manufacturing.

As JCET holds approximately 14.7% equity interest in SJ Semiconductor Corporation, a subsidiary of the Company, at the time of entering into the Disposal Agreement and the Subscription Agreement, it is a connected person at the subsidiary level of the Company under the Listing Rules. The transactions under the Disposal Agreement and the Subscription Agreement are exempt from the circular, independent financial advice and shareholders' approval requirements under Rule 14A.101 of the Listing Rules.

On December 9, 2016, according to feedback received by JCET from the China Securities Regulatory Commission ("CSRC") in relation to Holdco A's losses in 2016 and its expected loss during the period commencing on January 1, 2017 and ending on the completion date of the transactions under the Disposal Agreement (the "2017 Transitional Period") as well as profit compensation for the coming three years (2017, 2018 and 2019), SilTech Shanghai and JCET entered into a supplemental agreement after negotiation to amend and supplement the Disposal Agreement (the "Supplemental Agreement"). The parties agreed that:

(a) for the period commencing on December 31, 2015 and ending on the completion date of the transactions under the Disposal Agreement, any profit of Holdco A will be enjoyed by JCET, while 19.61% of any loss of Holdco A will be borne by SilTech Shanghai by way of cash compensation to JCET; and

(b) an agreed sum of net profit be set for Holdco A for the years of 2017, 2018 and 2019, and if the aggregate amount of Holdco A's consolidated net profit for each of those years is lower than the agreed sum, SilTech Shanghai will compensate JCET up to a capped limit with a cash amount equivalent to the shortfall of its proportion of shareholding less any compensation SilTech Shanghai has already paid for Holdco A's loss during the 2017 Transitional Period (if any).

On March 1, 2017, the Company was notified by JCET that CSRC had granted conditional approval for the transactions under the Disposal Agreement and the Subscription Agreement (the "Conditional Approval"). Completion of the transactions under the Disposal Agreement and the Subscription Agreement is subject to the satisfaction of conditions in the Conditional Approval, which have been disclosed on the website of the CSRC.

On May 10, 2017, the Company was notified by JCET that CSRC had granted official approval for the transactions under the Disposal Agreement and the Subscription Agreement. The Disposal Agreement and the Subscription Agreement became effective on May 10, 2017 accordingly.

On June 19, 2017, the Company was notified by JCET that further to the full payment of the subscription price for the 150,681,044 A shares to be subscribed by SilTech Shanghai and issued by JCET under the Subscription Agreement (the "Subscription Shares") by SilTech Shanghai, JCET had completed the issue and registration procedures of the Subscription Shares (including the listing on the Shanghai Stock Exchange of the Subscription Shares) for SilTech Shanghai.



Financial Services Agreement with Datang Finance — 2016 to 2018

On December 18, 2015, the Company and Datang Telecom Group Finance Co., Ltd. (“Datang Finance”) entered into the financial services agreement with a three year term commencing on January 1, 2016 and ending on December 31, 2018 (“Financial Services Agreement”), pursuant to which Datang Finance has agreed to provide the Company and its subsidiaries, including its associated companies and companies under its management (“Group”) with a range of financial services (including deposit services, loan services, foreign exchange services and other financial services) subject to the terms and conditions provided therein.

Datang Finance will provide to the Group a range of financial services as the Group may request from time to time. Such financial services include deposit services, loan services, foreign exchange services and other financial services.

The financial services of Datang Finance are provided based on the following pricing principles:

1. Deposit services

The terms (including interest rates) in respect of deposit services offered to the Group by Datang Finance shall be no less favourable than those offered to the Group by third parties in respect of comparable services, subject to the relevant provisions of Chinese laws and regulations.

2. Loan services

The terms (including interest rates) in respect of loans services offered to the Group by Datang Finance shall be no less favourable than those offered to the Group by third parties in respect of comparable services, subject to the relevant provisions of Chinese laws and regulations.

3. Foreign exchange services

The terms (including exchange rates) in respect of foreign exchange services offered to the Group by Datang Finance shall be no less favourable than those offered to the Group by third parties in respect of comparable services, subject to the relevant provisions of Chinese laws and regulations.

4. Other financial services

The terms (including fees charged by Datang Finance) for the provision of financial services other than deposits services, loan services and foreign exchange services shall be no less favourable than the terms (including fees charged to the Group) applicable to third parties in respect of comparable services, subject to the relevant provisions of Chinese laws and regulations.

The Annual Caps under the Financial Services Agreement are set out below:

Annual Caps	For the year ended December 31,		
	2016 US\$ million	2017 US\$ million	2018 US\$ million
Deposit Cap (the maximum daily outstanding balances including accrued interests which is not cumulative in nature and inclusive of foreign currency and RMB deposits)	100	100	100
Spot FX Trading Cap (the maximum daily transaction amount for foreign exchange settlement and sales)	50	50	50
	5	5	5

Other Financial Services Cap (the maximum annual fee for other financial services)

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There are no historical caps for the deposit services, the foreign exchange services and other financial services with Datang Finance. The Annual Caps are determined based on the Group's actual financial needs and reasonable forecast.

The actual transaction amounts for the range of financial services which Datang Finance has provided to the Company pursuant to the Financial Services Agreement during the year ended December 31, 2017 are set out below.

Transactions	Actual Transaction Amounts for the year ended	
	December 31	
	2017	2016
	US\$ million	US\$ million
Deposit Services	11.8	12.3
Spot FX Trading Services	—	—
Other Financial Services	—	0.01

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

The reasons for the Company to enter into the Financial Services Agreement are as follows:

- 1) The entering into of the Financial Services Agreement does not preclude the Group from using the financial services of other PRC commercial banks. The Group has the discretion in selecting other PRC commercial banks as its financial services provider as it thinks fit and appropriate for the benefits of the Group;
- 2) The entering into of the Financial Services Agreement enables the Group to broaden its existing financing channels; and
- 3) The terms in respect of the deposit services, the loan services and the foreign exchange services offered by Datang Finance to the Group will be no less favourable than those offered to the Group by third parties and the commercial banks in the PRC in respect of comparable services, which enables the Group to lower its finance costs.

Each of Datang Finance and Datang Telecom Technology & Industry Holdings Co., Ltd. (LDatang Holdings Technology & Industry Holdings Co., Ltd. (LDemy of Telecommunications Technology and Datang Holdings in turn wholly owns Datang Holdings (Hongkong) Investment Company Limited (Datang Hongkong) turn wholly owns Datang Holdings (Hongkong) Investment Company Limited 18.30% of the total issued share capital of the Company as of the date of entering into the Financial Services Agreement. Datang Finance is a fellow subsidiary of Datang Holdings and an associate of Datang Hongkong, and thus a connected person of the Company under Chapter 14A of the Listing Rules. The Financial Services Agreement and the transactions contemplated thereunder are exempt from the independent shareholders Agreement and the transactions contemplated by the Listing Rules.

Other than Dr. Gao Yonggang and Dr. Chen Shanzhi, both of whom are nominated as Directors by Datang Hongkong and its associates, none of the Directors has a material interest in the Financial Services Agreement or the transactions contemplated thereunder. Dr. Gao and Dr. Chen abstained from voting at the meeting of the Board on the resolutions approving the Financial Services Agreement and the transactions contemplated thereunder.

Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Financial



Services Agreement that took place between Datang Finance and the Group during the period ended December 31, 2017 had been entered into:

- 1) in the ordinary and usual course of business of the Group;
- 2) on normal commercial terms or better; and
- 3) in accordance with the Financial Services Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the continuing connected transactions of the Company under the Financial Services Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

#### Renewed Framework Agreement with Datang Holdings – 2016 to 2018

On December 28, 2015, the Company entered into a renewed framework agreement with Datang Telecom Technology & Industry Holding Co., Ltd. ("Datang Holdings") ("Renewed Framework Agreement"), pursuant to which the Group and Datang Holdings (including its associates) agree to engage in business collaboration including but not limited to foundry service. The term of the Renewed Framework Agreement is three years commencing from January 1, 2016. The pricing for the transactions contemplated under the Renewed Framework Agreement is determined by reference to reasonable market price available from or to independent third parties in the ordinary and usual course of business based on normal commercial terms and on an arm's length negotiation, or the price based on the actual production cost incurred plus a reasonable profit margin with reference to the general range of profit margins in the industry, and will be determined on terms not less favorable than those applicable to sales by independent third parties to the Company or its subsidiaries and not more favourable than those applicable to sales by the Company or its subsidiaries to independent third parties (if any). In relation to the provision of foundry services by the Company to Datang Holdings, the Company will have reference to the terms (including pricing) which it offers to independent third party customers for services of a comparable nature and quantity, as well as the reasonable market prices which are applicable.

The expected caps, being the maximum revenue on an aggregated basis expected to be generated by the Group from the transactions contemplated under the Renewed Framework Agreement ("Non-Exempt Continuing Connected Transactions"), are :

- US\$50 million for the year ended December 31, 2016;
- US\$66 million for the year ended December 31, 2017; and
- US\$82 million for the year ending December 31, 2018.

In arriving at the expected caps, the Company has considered the potential level of Non-Exempt Continuing Connected Transactions it may potentially provide in light of current market conditions of the semiconductor industry and the technological capability of the Company, having regard to the historical transaction volume of Datang Holdings and its associates with the Company and the historical revenues generated by the Company from the transactions under the framework agreement dated February 18, 2014 (the "2014 Framework Agreement") entered into between the Company and Datang Holdings.

The Company considers that Datang Holdings plays a key role in China's semiconductor industry. By entering into the Renewed Framework Agreement and the Non-Exempt Continuing Connected Transactions with Datang Holdings, the Company believes that this will bring the Company sustainable business opportunities and also drive the Company's technological achievement.

The aggregate revenues generated by the Group from the transactions entered into pursuant to the 2014 Framework Agreement and the Renewed Framework Agreement were US\$22.6 million, US\$17.9 million and US\$20.2 million for the year ended December 31, 2015, 2016 and 2017 respectively.

As Datang Holdings is the holding company of Datang Holdings (Hongkong) Investment Company Limited, a substantial shareholder of the Company holding approximately 18.30% of the total issued share capital of the Company as of the time of entering into the Renewed Framework Agreement, Datang Holdings is an associate of Datang (Hongkong) and hence a connected person of the Company under Chapter 14A of the Listing Rules. The Non-Exempt Continuing Connected Transactions constitute non-exempt continuing connected transactions of the Company under Chapter 14A of the Listing Rules subject to the reporting and announcement requirements and exempt from the independent shareholders' approval requirement under Chapter 14A of the Listing Rules.

The Company confirms that Dr. Chen Shanzhi and Dr. Gao Yonggang, both being Directors nominated by Datang Holdings, have abstained from voting on all relevant board resolutions relating to the Framework Agreement and the Non-Exempt Continuing Connected Transactions.

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Renewed Framework Agreement that took place between Datang Holdings (or any of its associates) and the Company (or any of its subsidiaries) for the year ended December 31, 2017 had been entered into:

- 1) in the ordinary and usual course of business of the Group;
- 2) on normal commercial terms or better; and
- 3) in accordance with the Renewed Framework Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the non-exempt continuing connected transactions of the Company under the Renewed Framework Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

#### Continuing Connected Transactions in relations to Centralised Fund Management Agreement — 2016 to 2018

On March 21, 2016, the Company, SMIC Beijing and SJ Semiconductor (Jiangyin) Corporation ("SJ Jiangyin"), entered into centralised fund management agreement ("Centralised Fund Management Agreement") in relation to: (i) the Company authorising its wholly-owned subsidiary SMIC Beijing to carry out centralized management of the Group's RMB fund and foreign exchange in accordance with the relevant PRC laws and regulations; and (ii) SJ Jiangyin participating in the Group's centralised fund management system. SMIC Beijing will provide internal deposit services, collection and payment services, foreign



exchange services, internal loan services, provision of letter of credit services and other financial services to SJ Jiangyin pursuant to the Centralised Fund Management Agreement, ending on December 31, 2018.

The Company would authorise its wholly-owned subsidiary SMIC Beijing to carry out centralised management of the Group's RMB fund and foreign exchange in accordance with the relevant PRC laws and regulations. Based on such authorisation, SMIC Beijing would provide fund management services to SJ Jiangyin within the scope permitted by the relevant PRC policies.

The price of the services provided by SMIC Beijing to SJ Jiangyin contemplated under the Centralised Fund Management Agreement will be fair and reasonable under the Listing Rules, determined according to the market principle on an arm's length basis, subject to compliance with requirements for connected transactions of the Stock Exchange:

#### 1. Internal Deposit Services

The terms (including interest rates) in respect of the internal deposit services provided by SMIC Beijing to SJ Jiangyin will be on normal commercial terms or better, in the ordinary and usual course of business of the Group and in the interests of the Company and the Shareholders as a whole, subject to the relevant provisions of PRC laws and regulations. The interest rate applicable to SJ Jiangyin's deposits with SMIC Beijing will be determined based on arm's length negotiations by the parties. The Company will make reference to the interest rate (if any) prescribed by the PBOC applicable to RMB deposits from time to time and published on the PBOC's website for the same type of deposits.

#### 2. Collection and Payment Services and Foreign Exchange Services

The terms (including fees charged by SMIC Beijing and exchange rates) in respect of the collection and payment services and foreign exchange services provided by SMIC Beijing to SJ Jiangyin will be on normal commercial terms or better, in the ordinary and usual course of business of the Group and in the interests of the Company and the Shareholders as a whole, subject to the relevant provisions of PRC laws and regulations. The fees charged by SMIC Beijing to SJ Jiangyin for providing such services will be determined based on arm's length negotiations by the parties.

#### 3. Internal Loan Services

The terms (including interest rates) in respect of the internal loan services provided by SMIC Beijing to SJ Jiangyin will be on normal commercial terms or better, in the ordinary and usual course of business of the Group and in the interests of the Company and the Shareholders as a whole, subject to the relevant provisions of PRC laws and regulations. The interest rate applicable to loans granted to SJ Jiangyin by SMIC Beijing will be based on arm's length negotiation by the parties. The Company will make reference to the benchmark interest rate (if any) prescribed by the PBOC applicable to RMB loans from time to time and published on the PBOC's website for the same type of loans.

#### 4. Provision of Letter of Credit Services

The terms (including fees charged by the Company) in respect of the letters of credit provided by the Company to SJ Jiangyin will be on normal commercial terms or better, in the ordinary and usual course of business of the Group and in the interests of the Company and the Shareholders as a whole, subject to the relevant provisions of PRC laws and regulations. The fees charged by the Company to SJ Jiangyin for providing such services will be determined based on arm's length negotiations by the parties.



### 5. Other Financial Services

The terms (including fees charged by SMIC Beijing) in respect of other financial services provided by SJ Beijing to SJ Jiangyin will be on normal commercial terms or better, in the ordinary and usual course of business of the Group and in the interests of the Company and the Shareholders as a whole, subject to the relevant provisions of PRC laws and regulations. The fees charged by SMIC Beijing to SJ Jiangyin for providing such services will be determined based on arm's length negotiations by the parties. The Annual Caps under the Centralised Fund Management Agreement are set out below.

Annual Caps	For the year ending December 31,		
	2016	2017	2018
	US\$ million	US\$ million	US\$ million
Internal Deposit Cap (the maximum daily outstanding balances including accrued interests)	500	500	500
Collection and Payment and Foreign Exchange Cap (the maximum daily transaction amount for collection and payment services and foreign exchange services)	500	500	500
Internal Loan Cap (the maximum borrowing limit per calendar year)	500	500	500
Letter of Credit Cap (the maximum aggregate amount under the letter(s) of credit issued on SJ Jiangyin's behalf per calendar year)	500	500	500
Other Financial Services Cap (the maximum fees charged for provision of other financial services per calendar year)	50	50	50

The Company considers that the entry into of the Agreement and the transactions contemplated thereunder will open up the domestic and foreign funding channels of the Group, increase efficient fund usage and reduce the Group's overall debt levels and interest expense. The centralized management of foreign exchange risk exposure will also reduce the risks of exchange loss of the Group.

As China IC Fund holds approximately 17.55% equity interest in the Company through its wholly-owned subsidiary at the time of entering into the Centralised Fund Management Agreement, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company at the issuer level under the Listing Rules. China IC Fund holds approximately 25.0% equity interest at the date of entering into the Centralised Fund Management Agreement in SJ Semiconductor Corporation ("SJ Cayman"), a majority owned subsidiary of the Company, through its wholly-owned subsidiary, Xun Xin (Shanghai) Investment Co. Ltd. ("Xun Xin"). SJ Cayman and its wholly-owned subsidiary SJ Jiangyin are therefore connected subsidiaries of the Company as defined under Rule 14A.16 of the Listing Rules. SJ Jiangyin is thus a connected person of the Company under the Listing Rules. The transactions contemplated under the Centralised Fund Management Agreement are subject to reporting, announcement and independent shareholders' approval under Chapter 14A of the Listing Rules.

Mr. Lu Jun, who is a Class II non-executive Director and a member of the Nomination Committee of the Company, holds the position of President in China IC Fund's sole manager Sino IC Capital Co., Ltd., Mr. Ren Kai, who is a Class III non-executive Director and a member of the Strategic Advisory Committee of the Company, holds the position of Vice President in China IC Fund's sole manager Sino IC Capital Co., Ltd and the position of legal representative in Xun Xin. Both Mr. Lu Jun and Mr. Ren Kai have abstained from voting on the relevant board resolution in respect of the Centralised Fund Management Agreement.

The Centralised Fund Management Agreement and all transactions contemplated thereunder and the annual caps were approved by the independent shareholders of the Company at the extraordinary general meeting (“EGM”) of the Company held on June 24, 2016 as required under Chapter 14A of the Listing Rules.

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The actual transaction amounts generated by the Company from the fund management services entered into pursuant to the Centralised Fund Management Agreement during the year ended December 31, 2016 are set out below.

Transactions	Actual Transaction Amounts for the year ended December 31,	
	2017 US\$ million	2016 US\$ million
Internal Deposit Services	147.2	93.2
Collection and Payment Services and Foreign Exchange Services	—	—
Internal Loan Services	—	—
Letter of Credit Services	4.7	—
Other Financial Services	—	—

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Centralised Fund Management Agreement that took place between the Company and SJ Jiangyin for the year ended December 31, 2017 had been entered into:

1. in the ordinary and usual course of business of the Group;
2. on normal commercial terms or better; and
3. in accordance with the Centralised Fund Management Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the continuing connected transactions of the Company under the Centralised Fund Management Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

On September 20, 2017 that the Company, SMIC Beijing, SJ Jiangyin and SJ Cayman (on behalf of itself and SJ Hong Kong) entered into the Supplemental Agreement to amend the Centralised Fund Management Agreement. Pursuant to the Supplemental Agreement, the parties agreed that (1) the Centralised Fund Management Agreement should apply not only to SJ Jiangyin but also to its indirect 100% holding company SJ Cayman and its direct 100% holding company SJ Hong Kong; and (2) references in the Centralised Fund Management Agreement to SJ Jiangyin should include references to SJ Cayman and SJ Hong Kong.

Centralised Fund Management Agreement with Semiconductor Manufacturing North China (Beijing) Corporation — 2016 to 2018

On March 31, 2016, the Company and its subsidiaries, SMIC Beijing and SMNC entered into a centralised fund management contract ("Centralised Fund Management Contract") providing the terms under which: (i) the Company would procure its wholly-owned subsidiary SMIC Beijing to carry out centralised management of the Group's RMB fund and foreign exchange in accordance with the relevant PRC laws and regulations; and (ii) SMNC would participate in the Group's centralised fund management system. SMIC Beijing provides internal deposit services,

collection and payment services, foreign exchange services, internal loan services, provision of letter of credit services and other financial services to SMNC within the scope permitted by the relevant PRC policies ending on December 31, 2018.

The Centralised Fund Management Contract was entered into by the parties on March 31, 2016, at the time when SMNC was not a connected person. Due to the completion of the investment by China IC Fund (which

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indirectly held approximately 17.54% equity interest in the Company at the relevant time and is therefore a connected person of the Company at the issuer level) in approximately 26.5% equity interest in SMNC on June 30, 2016, SMNC became a connected subsidiary of the Company as defined under Rule 14A.16 of the Listing Rules, and thus a connected person of the Company. The Centralised Fund Management Contract and the transactions contemplated thereunder constitute continuing transactions subsequently became continuing connected transactions.

The expected Annual Caps were:

1. The Internal Deposit Cap (representing the proposed maximum daily outstanding balances including accrued interests placed by SMNC with SMIC Beijing) is US\$2 billion for each of the three years ending December 31, 2016, 2017 and 2018 respectively.
2. The Collection and Payment and Foreign Exchange Cap (representing the proposed maximum daily transaction amount for collection and payment services and foreign exchange services provided by SMIC Beijing to SMNC) is US\$2 billion for each of the three years ending December 31, 2016, 2017 and 2018 respectively.
3. The Internal Loan Cap (representing the proposed maximum daily outstanding balance of loans including accrued interest provided by SMIC Beijing to SMNC) is US\$2 billion for each of the three years ending December 31, 2016, 2017 and 2018 respectively.
4. The Letter of Credit Cap (representing the proposed maximum aggregate principal amount of the letter(s) of credit issued on SMNC by SMIC Beijing to SMNC) is US\$2 billion for each of the three years ending in December 31, 2016, 2017 and 2018 respectively.
5. The Other Financial Services Cap (representing the proposed maximum fees charged by SMIC Beijing for providing other financial services to SMNC per calendar year) is US\$50 million for each of the three years ending December 31, 2016, 2017 and 2018 respectively.

The price of the services provided by SMIC Beijing to SMNC contemplated under the Agreement would be fair and reasonable under the Listing Rules, determined according to the market principle on an arm's length basis subject to compliance with requirements of the Stock Exchange and relevant requirements in the PRC.

The Company considers that the entry into of the Centralised Fund Management Agreement and the transactions contemplated thereunder will have the following benefits:

1. open up the domestic and foreign funding channels of the Group;
2. reduce the Group's overall debt levels and increase efficient fund usage;
3. reduce the Group's interest expense; and
4. obtain favorable exchange rate for the Group.

The actual transaction amounts generated by the Company from the fund management services entered into pursuant to the Centralised Fund Management Agreement during the year ended December 31, 2017 are set out below.

Transactions	Actual Transaction Amounts for the year ended December 31,	
	2017 US\$ million	2016 US\$ million
Internal Deposit Services	1,182.3	719.7
Collection and Payment Services and Foreign Exchange Services	—	—
Internal Loan Services	—	120.5
Letter of Credit Services	—	—
Other Financial Services	—	—

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Centralised Fund Management Agreement that took place between the Company and its subsidiaries, SMIC Beijing and SMNC for the year ended December 31, 2017 had been entered into:

1. in the ordinary and usual course of business of the Group;
2. on normal commercial terms or better; and
3. in accordance with the Centralised Fund Management Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the continuing connected transactions of the Company under the Centralised Fund Management Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

#### Framework Agreement with Sino IC Leasing Co., Ltd. — 2016 to 2020 — and Supplemental Agreement to Framework Agreement

On March 30, 2016, the Company and Sino IC Leasing Co., Ltd. ("Sino IC Leasing") entered into the Framework Agreement, pursuant to which Sino IC Leasing should provide to the Company a range of financial services (including but not limited to leasing, factoring, loan entrustment, bills acceptance and discounting services) and certain other related services (including but not limited to financial advisory and consulting services).

Sino IC Leasing should support the needs of the Company in its business expansion for funds in both RMB and other foreign currencies. Sino IC Leasing should provide the following services to the Company within the scope permitted by the relevant PRC laws, regulations and policies, as well as the internal operational and management policies of the Company:

1. Finance related Services
2. The finance related services which Sino IC Leasing will provide to the Company include but are not limited to leasing, factoring, loan entrustment, bills acceptance and discounting services.
3. Other related Services

4. The other related services which Sino IC Leasing will provide to the Company include but are not limited to financial advisory and consulting services.

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The Annual Caps under the Framework Agreement are set out below.

Annual Caps	For the year ending December 31,				
	2016 US\$ billion	2017 US\$ billion	2018 US\$ billion	2019 US\$ billion	2020 US\$ billion
Financial services Cap (the maximum rental and fees charged for provision of financial services per calendar year)	1.5	1.5	1.5	1.5	1.5
Other related services Cap (the maximum fees charged for provision of other related services per calendar year)	0.15	0.15	0.15	0.15	0.15

The price for the services provided by Sino IC Leasing to the Company contemplated under the Framework Agreement would be determined by reference to the current market conditions and the terms (including the prices) which are comparable to the quotes from independent third parties (to the extent available) providing services of a similar nature with comparable scale in the ordinary and usual course of business based on normal commercial terms and on arm's length negotiations, as well as the reasonable market prices which are applicable around that time, subject to compliance with requirements for related party transactions and connected transactions of the Stock Exchange.

The reasons for the Company to enter into the Framework Agreement are as follows:

1. the entering into of the Framework Agreement with Sino IC Leasing will enable the Group to broaden its existing financing channels; and
2. optimise the existing machinery of the Company and increase operating cash flow.

As China IC Fund holds approximately 17.55% ownership interest in the Company at of time of entering into the Framework Agreement through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company at the issuer level under the Listing Rules. China IC Fund also holds approximately 35.21% ownership interest in Sino IC Leasing at the time of entering into the Framework Agreement, therefore Sino IC Leasing is a connected person of the Company under the Listing Rules by virtue of being an associate of a connected person of the Company as defined under Rule 14A.13 of the Listing Rules. The Framework Agreement and the transactions contemplated thereunder constitute non-exempt continuing connected transactions subject to the reporting, announcement and shareholders' approval requirements of Chapter 14A of the Listing Rules. As the term of the Framework Agreement exceeds three years, the independent financial adviser, Messis Capital Ltd., also explained why a period longer than three years is required and confirmed that it is normal business practice for an agreement of this type to be of such duration.



Mr. Lu Jun, who is a Class II non-executive Director and a member of the nomination committee of the Company, holds the position of President in China IC Fund's sole manager, namely Sino IC Capital Co., Ltd.. Mr. Ren Kai, who is a Class III non-executive Director, also holds the position of Vice President in Sino IC Capital Co., Ltd. As such, both Mr. Lu and Mr. Ren have abstained from voting on the relevant board resolutions in respect of the Framework Agreement.

The Framework Agreement with Sino IC Leasing and all transactions contemplated thereunder; and the annual caps in respect of the Framework Agreement with Sino IC Leasing were approved by the independent shareholders of the Company at the extraordinary general meeting ("EGM") of the Company held on August 10, 2016 as required under Chapter 14A of the Listing Rules.

The actual amounts generated by the Company from the transactions entered into pursuant to the Framework Agreement during the year ended December 31, 2017 are set out below.

Transactions	Actual Transaction Amounts for the year ended	
	December 31,	
	2017	2016
	US\$ million	US\$ million
Financial Services	45.6	—
Other Related Services	—	—

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Framework Agreement that took place between the Company and Sino IC Leasing Co., Ltd. for the year ended December 31, 2017 had been entered into:

1. in the ordinary and usual course of business of the Group;
2. on normal commercial terms or better; and
3. in accordance with the Framework Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the continuing connected transactions of the Company under the Framework Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

On December 21, 2016, the Company and Sino IC Leasing entered into a supplemental agreement to amend the Framework Agreement.

Pursuant to the Supplemental Agreement, the Company and Sino IC Leasing agreed that (1) the Framework Agreement should apply not only to Sino IC Leasing but also to its subsidiaries and (2) references therein to Sino IC Leasing should include references to its subsidiaries. The Supplemental Agreement is subject to applicable laws and regulations, including the Listing Rules.

Save for the above amendments, all other terms and conditions of the Framework Agreement, including the term, the scope of services, the pricing policy, the payment terms and the annual caps for the years ending December 31, 2016, 2017, 2018, 2019 and 2020 respectively remain the same.

The reason for entering into the Supplemental Agreement was that the Company had been informed by Sino IC Leasing that, in order to take advantage of benefits which may be available to its subsidiaries which are established in certain areas in the PRC, it wished to have the ability to perform its services under the Framework Agreement through its subsidiaries.

Framework Agreement with Semiconductor Manufacturing North China (Beijing) Corporation — 2016 to 2017

On September 30, 2016 the Company and Semiconductor Manufacturing North China (Beijing) Corporation (“SMNC”) entered into the Framework Agreement in relation to the supply of goods and services, leasing of assets, transfer of equipment and provision of technical authorization or licensing with a term commencing on the date of the Framework Agreement and ending on December 31, 2017.

The Company and SMNC agreed to enter into one or more of the following types of transactions with each other including the supply of goods and services, leasing of assets, transfer of equipment and provision of technical authorization or licensing:

1. Purchase and sale of spare parts, raw materials, photomasks and finished products;
2. Rendering of or receiving services including, without limitation, (a) processing and testing service; (b) sales service; (c) overseas market promotion and customer service; (d) procurement service; (e) research, development and experiment support service; (f) comprehensive administration, logistics, production management and IT service; and (g) water, electricity, gas and heat provision service;
3. Leasing of assets such as plant, office premises and equipment;
4. Transfer of equipment; and
5. Provision of technical authorization or licensing by the Company to SMNC, as well as the sharing of research and development costs in relation to 28 nanometer technologies.

The price of the Continuing Connected Transactions will be determined in accordance with the following general principles in ascending order:

- 1) the price prescribed or approved by state or local price control department (if any);
- 2) a reasonable price in accordance with the industry guided price for a particular type of service or product issued by the relevant industry association (if any);
- 3) The comparable local market price, which shall be determined after arm’s length negotiation between both parties with reference to (a) the market price charged by independent third parties for comparable product or services at the same time and in the same region; and (b) the lowest quotation that the purchaser can obtain by way of public tender;
- 4) where there is no comparable local market price, the price based on the principle of cost plus a fair and reasonable profit rate, being the aggregate sum of (a) the actual reasonable cost; and (b) a fair and reasonable profit rate. The expected range of profit is from 5% to 8%; which is in line with the industry and not lower than the profit rate charged by the Company or SMNC (as applicable) to independent third parties (to the extent available); and
- 5) where general pricing principles (1) to (4) are not applicable, the price determined by other reasonable means as agreed upon by both parties on the condition that the relevant costs are identifiable and are allocated to each party involved on a fair and equitable basis.

Where general pricing principles (2) to (5) apply, where possible each of the Company and SMNC will obtain at least two quotations or tenders from independent third parties before agreeing upon the applicable price.

As to the price prescribed by the state or local price control department, state-prescribed fees apply to water and electricity, which are relevant to the cost of such services and are determined by prices published from time by time by the relevant PRC government authority.

Under the Pricing Law of the PRC, the PRC government may implement a state-prescribed or guidance price for specific goods and services if necessary, and such price will be promulgated in accordance with the requirements of relevant laws, regulations or administrative rules from time to time. If any state-prescribed price or guidance price becomes available to the Continuing Connected Transactions in the future, the parties will execute such price first in accordance with pricing principle (1) above.

The breakdown for the proposed Annual Caps for the Continuing Connected Transactions is set out below:

Annual Caps	For the years ending December 31,	
	2016 US\$ million	2017 US\$ million
Purchase and sale of goods	310	650
Rendering of or receiving services	120	200
Leasing of assets	2	200
Transfer of equipment	—	200
Provision of technical authorization or licensing (including the sharing of research and development costs)	100	200
Total	532 million	1.45 billion

The Company believes that the business partnership between itself and SMNC will eliminate some duplicated efforts on introducing and manufacturing advanced nodes for IC design houses, therefore reducing the time to market and some overhead expenses for both parties. With the expansion of its capacity and continuous innovation, the Company believes that it will be able to increase its market share, enhance its position in the industry and benefit from the increase in its economies of scale. Furthermore, SMNC is expects to build up and expand its manufacturing capacity following the capital contribution by China IC Fund. The Company can therefore leverage SMNC's manufacturing capacity to expand the capacity of its advanced technology in a capital-efficient manner to meet the surging customer demand.

As China IC Fund holds approximately 17.51% ownership interest in the Company at the time of entering into the Framework Agreement through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company at the issuer level under the Listing Rules. As China IC Fund holds 26.5% ownership interest in the registered capital of SMNC at the date of entering into the Framework Agreement, SMNC is therefore a connected subsidiary of the Company as defined under Rule 14A.16 of the Listing Rules and thus a connected person of the Company under the Listing Rules. The Framework Agreement and the transactions contemplated thereunder constitute non-exempt continuing connected transactions subject to the reporting, announcement and shareholders' approval requirements of Chapter 14A of the Listing Rules.

The Framework Agreement and all transactions contemplated thereunder; and the annual caps in respect of the Framework Agreement were approved by the independent shareholders of the Company at the extraordinary general meeting (“EGM”) of the Company held on December 6, 2016 as required under Chapter 14A of the Hong Kong Stock Exchange Listing Rules.

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The actual amounts generated by the Company from the transactions entered into pursuant to the Framework Agreement during the year ended December 31, 2017 are set out below.

Transactions	Actual Transaction Amounts for the year ended December 31,	
	2017 US\$ million	2016 US\$ million
Purchase and sale of goods	471.5	168.7
Rendering of or receiving services	54.9	23.8
Leasing of assets	0.6	0.4
Transfer of equipment	—	—
Provision of technical authorization or licensing	76.7	69.1
Total	603.7	262.0

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

Pursuant to Rule 14A.55 of Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Framework Agreement that took place between the Company and Semiconductor Manufacturing North China (Beijing) Corporation for the year ended December 31, 2017 had been entered into:

- 1) in the ordinary and usual course of business of the Group;
- 2) on normal commercial terms or better; and
- 3) in accordance with the Framework Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the continuing connected transactions of the Company under the Framework Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

#### Framework Agreement with SJ Semiconductor Corporation — 2017 to 2019

On December 27, 2016, the Company and its majority owned subsidiary SJ Semiconductor Corporation ("SJ Cayman") entered into a framework agreement in relation to supply of goods and services, transfer of equipment and provision of technical authorization or licensing with a term commencing on January 1, 2017 and ending on December 31, 2019 and subject to the terms and conditions provided therein ("Framework Agreement with SJ Cayman").

The Company and SJ Cayman agreed to enter into one or more of the following types of transaction with each other including supply of goods and services, transfer of equipment and provision of technical authorization or licensing:

1. Purchase and sale of spare parts and raw materials;
2. Rendering of or receiving services including, without limitation, (a) processing and testing service; (b) procurement service; (c) research, development and experiment support service; and (d) comprehensive administration, logistics, production management and IT service;

3. Transfer of equipment; and
4. Provision of technical authorization or licensing by the Company to SJ Cayman.

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The price of the transactions contemplated under the Framework Agreement with SJ Cayman (“Continuing Connected Transactions with SJ Cayman”) will be determined in accordance with the following general principles in ascending order:

- 1) the price prescribed or approved by state or local price control department (if any);
- 2) a reasonable price in accordance with the industry guided price for a particular type of service or product issued by the relevant industry association (if any);
- 3) the comparable local market price, which shall be determined after arm’s length negotiation between both parties of the contract with reference to (a) the market price charged by independent third parties for comparable product or services at the same time and in the same region; and (b) the lowest quotation that the purchaser can obtain by way of public tender. The Company will obtain at least two quotations or tenders from independent third parties before agreeing upon the applicable price;
- 4) where there is no comparable local market price, price based on the principle of cost plus a fair and reasonable profit rate, being the aggregate sum of (a) the actual reasonable cost; and (b) a fair and reasonable profit rate. The expected range of profit is from 5% to 10%, which is in line with the industry and not lower than the profit rate charged by the Company or SJ Cayman (as applicable) to independent third parties (to the extent available).

As to price prescribed by the state or local price control department, state-prescribed fees apply to water, electricity, gas and communication services involved in providing procurement service and comprehensive administration, logistics, production management and IT service, which are relevant to the cost of such services and are determined by prices published from time by time by the relevant PRC government authority. Under the Pricing Law of the PRC, the state may implement state-prescribed or guidance price for specific goods and services if necessary, such price will be promulgated in accordance with the requirements of relevant laws, regulations or administrative rules from time to time. If any state-prescribed price or guidance price becomes available to the Continuing Connected Transactions with SJ Cayman in the future, the parties will execute such price first in accordance with pricing principle (1) above.

The proposed annual caps for the Continuing Connected Transactions are the same for each of the three years ending on December 31, 2017, 2018 and 2019 and are set out below:

- US\$11 million (or its equivalent in other currencies) for Supply of goods and services, transfer of equipment and provision of technical authorization or licensing by the Company; and
- US\$100 million (or its equivalent in other currencies) for Supply of goods and services and transfer of equipment by SJ Cayman.

In arriving at the proposed annual caps, the Company considered the historical transaction amounts between the Company and SJ Cayman, as well as reasonable factors such as the expected occurrences of non-exempt continuing transactions in light of current market conditions of the semiconductor industry and the technological capability of the Company. The Company has also considered the fact that SJ Cayman has only been established recently in August 2014 and is expected to steadily progress towards establishing full operations in 2019.



The actual transaction amounts for supply of goods and services, transfer of equipment and provision of technical authorization or licensing generated by the Company and for supply of goods and services and transfer of equipment generated by SJ Cayman for the year ended December 31, 2017 were US\$0.9 million and US\$20.8 million respectively. None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

The Company considers that the entry into the Framework Agreement with SJ Cayman and the Continuing Connected Transactions with SJ Cayman will continue to bring the Company an effective and complete wafer turn- key solution.

As China IC Fund holds approximately 17.404% equity interest in the Company at the date of entering into the Framework Agreement with SJ Cayman through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company at the issuer level under the Listing Rules. China IC Fund holds approximately 29.405% equity interest in SJ Cayman at the date of entering into the Framework Agreement with SJ Cayman through its wholly-owned subsidiary, Xun Xin. SJ Cayman is therefore a connected subsidiary of the Company as defined under Rule 14A.16 of the Listing Rules and thus a connected person of the Company under the Listing Rules. The Framework Agreement with SJ Cayman and the transactions contemplated thereunder are exempt from independent shareholders' approval requirements under Chapter 14A of the Listing Rules.

No Director is considered to have a material interest in the Framework Agreement with SJ Cayman which would have required the Director to abstain from voting at the Board Meeting authorizing the Framework Agreement with SJ Cayman.

None of the transaction accounts exceeded the annual cap for the year ended December 31, 2017. Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive Directors have reviewed the non-exempt continuing connected transactions and confirmed that the transactions under the Framework Agreement that took place between the Company and its majority owned subsidiary SJ Cayman for the year ended December 31, 2017 had been entered into:

1. in the ordinary and usual course of business of the Group;
2. on normal commercial terms or better; and
3. in accordance with the Framework Agreement on terms that were fair and reasonable and in the interests of the shareholders of the Company as a whole.

Pursuant to Rule 14A.56 of the Listing Rules, the Company's external auditor performed certain agreed upon procedures in respect of the continuing connected transactions of the Company under the Framework Agreement and had provided to the Board an unqualified letter containing findings and conclusions in respect of the aforesaid continuing connected transactions.

#### Framework Agreement with Semiconductor Manufacturing North China (Beijing) Corporation — 2018 to 2020

On December 6, 2017 the Company and its subsidiary, Semiconductor Manufacturing North China (Beijing) Corporation ("SMNC") entered into a framework agreement in relation to the supply of goods, rendering of or receiving services, leasing of assets, transfer of assets, provision of technical authorization or licensing and provision of guarantee. The Framework Agreement is for a term of three years commencing on January 1, 2018 and ending on December 31, 2020 ("Framework Agreement with SMNC 2018–2020").

The Company and SMNC agreed to enter into one or more of the following types of transactions with each other including the supply of goods, rendering of or receiving services, leasing of assets, transfer of assets, provision of technical authorization or licensing and provision of guarantee:



1. Purchase and sale of spare parts, raw materials, photomasks and finished products;
  2. Rendering of or receiving services, including, without limitation, (a) processing and testing service; (b) sales service; (c) overseas market promotion and customer service; (d) procurement service; (e) research, development and experiment support service; (f) comprehensive administration, logistics, production management and IT service; and (g) water, electricity, gas and heat provision service;
3. Leasing of assets, such as plant, office premises and equipment;
4. Transfer of assets;
5. Provision of technical authorization or licensing by the Company and/or its subsidiaries (other than SMNC and its subsidiaries) (“Group A”) to SMNC and/or its subsidiaries (“Group B”), as well as the sharing of research and development costs in relation to 28-nanometer technologies; and
6. Provision of guarantee by Group A for SMNC’s financing activities.

The price of the transactions contemplated under the Framework Agreement with SMNC 2018–2010 (“Continuing CTs”) will be determined in accordance with the following general principles (in ascending order):

- 1) the price prescribed or approved by state or local price control department (if any);
- 2) a reasonable price in accordance with the industry guided price;
- 3) the comparable local market price, which shall be determined after arm’s length negotiation between both parties with reference to (a) the market price charged by independent third parties for comparable product or services at the same time and in the same region; and (b) the lowest quotation that the purchaser can obtain by way of public tender;
- 4) where there is no comparable local market price, the price based on the principle of cost plus a fair and reasonable profit rate, being the aggregate sum of (a) the actual reasonable cost; and (b) a fair and reasonable profit rate;
- 5) where none of the above general pricing principles are applicable, the price determined by other reasonable means as agreed upon by both parties on the condition that the relevant costs are identifiable and are allocated to each party involved on a fair and equitable basis.

Where general pricing principles (2) to (5) apply, to the extent possible, each of Group A and Group B will obtain at least two quotations or tenders from independent third parties before agreeing upon the applicable price.

As to the price prescribed by the state or local price control department, state-prescribed fees apply to water and electricity, which are relevant to the cost of such services and are determined by prices published from time by time by the relevant PRC government authority. Under the Pricing Law of the PRC, the PRC government may implement a state-prescribed or guidance price for specific goods and services if necessary, and such price will be promulgated in accordance with the requirements of relevant laws, regulations or administrative rules from time to time. If any state-prescribed price or guidance price becomes available to the Continuing CTs in the future, the parties will execute such price first in accordance with pricing principle (1) above.

The breakdown for the proposed Annual Caps for the Continuing Connected Transactions is set out below:

Annual Caps	For the year ending December 31,		
	2018 US\$ million	2019 US\$ million	2020 US\$ million
Purchase and sale of goods	900	1,100	1,500
Rendering of or receiving services	100	150	200
Leasing of assets	200	200	200
Transfer of equipment	200	200	200
Provision of technical authorization or licensing (including the sharing of research and development costs)	100	100	100
Provision of guarantee	1,000	1,000	1,000
Total	2.50 billion	2.75 billion	3.20 billion

The Company believes that advancement in technology is one of the key growth factors. With respect to advanced nodes of 28nm and 40nm, which is one of the development focuses of the Group, the Group recorded a revenue growth of more than 90% in 2016 as compared to the year of 2015, and more than 30% during the first three quarters of 2017 as compared to the corresponding period in 2016. The continuous cooperation with SMNC, throughout the various steps in production as reflected in the Continuing CTs, helps the Company to meet demand from its customers and to attain higher profitability, especially for the advanced nodes.

The business partnership between the Company and SMNC has helped to eliminate some duplicated efforts on introducing and manufacturing advanced nodes for IC design houses, therefore reducing the time to market and some overhead expenses for both parties. With the expansion of its capacity and continuous innovation, the Company believes that it will be able to enhance its position in the industry and benefit from the increase in its economies of scale.

As SMNC had been continuously expanding its manufacturing capacity, the Company can therefore leverage SMNC's manufacturing capacity to expand the Company capacity based on its advanced technology in a capital-efficient manner.

As China IC Fund holds approximately 15.06% equity interest in the Company at the time of entering into the Framework Agreement with SMNC 2018–2020 through its wholly-owned subsidiary, Xinxin (Hongkong) Capital Co., Limited, it is a connected person of the Company at the issuer level under the Listing Rules. As China IC Fund holds 32% equity interest in the registered capital of SMNC at the date of entering into the Framework Agreement with SMNC 2018–2020, SMNC is therefore a connected subsidiary of the Company as defined under Rule 14A.16 of the Listing Rules and thus a connected person of the Company under the Listing Rules. The Framework Agreement with SMNC 2018–2020 and the transactions contemplated thereunder constitute non-exempt continuing connected transactions subject to the reporting, announcement and independent shareholders' approval requirements of Chapter 14A of the Listing Rules.

The Framework Agreement with SMNC 2018–2020 and all transactions contemplated thereunder; and the annual caps in respect of the Framework Agreement with SMNC 2018–2020 were approved by the independent shareholders of the

Company at the extraordinary general meeting (“EGM”) of the Company held on February 8, 2018 as required under Chapter 14A of the Hong Kong Stock Exchange Listing Rules.

None of the transaction amounts exceeded the annual cap for the year ended December 31, 2017.

Pursuant to Rule 14A.55 of the Listing Rules, the independent non-executive directors of the Company have reviewed and approved the continuing connected transactions above and confirmed that the continuing connected transactions under the Framework Agreement with SMNC 2018–2020 that took place between the Company and its majority owned subsidiary SMNC for year ended December 31, 2017 had been entered into:

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- 1) in the ordinary and usual course of business of the Group;
- 2) on normal commercial terms or better; and
- 3) in accordance with the Framework Agreement with SMNC 2018–2020 on terms that were fair and reasonable and in the interests of the Company’s shareholders as a whole.

The auditor of the Company was engaged to report on the Group’s continuing connected transactions in accordance with the Hong Kong Standard on Assurance Engagements 3000, “Assurance Engagements Other Than Audits or Reviews of Historical Financial Information,” and with reference to Practice Note 740, “Auditor’s Letter on Continuing Connected Transactions under the Hong Kong Listing Rules,” issued by the Hong Kong Institute of Certified Public Accountants. The auditor has issued its unqualified letter containing its conclusions (with a copy provided to the Hong Kong Stock Exchange) in accordance with Rule 14A.56 of the Listing Rules and confirming that nothing has come to their attention that causes them to believe the continuing connected transactions:

- 1) have not been approved by the Board;
- 2) were not, in all material respects, in accordance with the pricing policies of the Group if the transactions involved provision of goods or services by the Group;
- 3) were not entered into, in all material respects, in accordance with the relevant agreement governing the transactions; and
- 4) have exceeded the caps.

#### Exercise of SilTech Shanghai’s Put Option

On December 22, 2014, we entered into a co-investment agreement through SilTech Shanghai with JCET and China IC Fund to acquire all or part of the issued and paid-up ordinary shares in the capital of STATS ChipPAC through JCET-SC (Singapore) Pte. Ltd.. On June 18, 2015, according to the co-investment agreement, we made a total capital contribution of the RMB equivalent of US\$100 million to subscribe for 19.61% ownership interest in Changjiang Xinke.

Furthermore, based on an investment exit agreement entered into by SilTech Shanghai, JCET and Jiangsu Xinchao Technology Group Co., Ltd (a substantial shareholder of JCET), JCET granted us an option (“SilTech Shanghai’s put option”) to sell the shares of Changjiang Xinke to JCET at exercise price equivalent to our initial investment plus an annual return rate at any time after Stats ChipPAC was acquired. We recently made a voluntary announcement of contemplating the exercise of SilTech Shanghai’s put option.

On April 27, 2016, SilTech Shanghai and JCET entered into a disposal agreement, pursuant to which SilTech Shanghai agreed to sell its 19.61% ownership interest in Changjiang Xinke to JCET in consideration of RMB664 million, which will be satisfied by JCET’s issue of 43,229,166 shares of JCET to SilTech Shanghai at RMB15.36 per share. On the same day, SilTech Shanghai and JCET entered into a subscription agreement, pursuant to which SilTech Shanghai agreed to subscribe for and JCET agreed to issue 150,681,044 shares of JCET in consideration of an aggregate subscription price of RMB2,655 million in cash.

On May 10, 2017, the Company was notified by JCET that the China Securities Regulatory Commission has granted approval for this transaction, and the disposal agreement and the subscription agreement became effective accordingly. On June 19, 2017, the transactions were completed and SMIC became the single largest shareholder of JCET. The Group recorded its ownership interest of JCET as investment in associate due to its right to nominate directors of JCET’s board.



#### Other Related Party Transactions

Please see Note 40 of Notes to the Consolidated Financial Statements for further information regarding the transactions between us and our related parties.

#### C. Interests of Experts and Counsel.

Not applicable.

### Item 8. Financial Information

#### A. Consolidated Statements and Other Financial Information

Please see “Item 18 — Financial Statements” for our audited consolidated financial statements filed as a part of this annual report on Form 20 F.

See “Item 4.B — Information on the Company — Business Overview — Customers and Markets” regarding the percentage of our sales which are exported from China.

#### Dividends and Dividend Policy

As of December 31, 2017, the Company’s retained earnings (accumulated deficit) increased to US\$187.0 million from US\$910.8 million accumulated losses as of December 31, 2016. On June 23, 2017, the accumulated losses of the Company as of December 31, 2016 were eliminated by an amount of US\$910.8 million. Please refer to Note 27 for more details. We have not declared or paid any cash dividends on the ordinary shares. We intend to retain any earnings for use in our business and do not currently intend to pay cash dividends on the ordinary shares. Dividends, if any, on the outstanding shares will be declared by and subject to the discretion of the Board and must be approved at the annual general meeting of shareholders. The timing, amount and form of future dividends, if any, will also depend, among other things, on:

- our results of operations and cash flow;
- our future prospects;
- our capital requirements and surplus;
- our financial condition;
- general business conditions;
- contractual restrictions on the payment of dividends by the Company to its shareholders or by our subsidiaries to the Company; and
- other factors deemed relevant by the Board.

Our ability to pay cash dividends will also depend upon the amount of distributions, if any, received by us from our wholly-owned Chinese operating subsidiaries. Under the applicable requirements of Chinese Company Law, our subsidiaries in China may only distribute dividends after they have made allowances for:

- recovery of losses, if any;
- allocation to the statutory common reserve funds;





- allocation to staff and workers' bonus and welfare funds; and
- allocation to a discretionary common reserve fund if approved by our shareholders.

More specifically, these operating subsidiaries may only pay dividends after 10% of their net profit has been set aside as statutory common reserves and a discretionary percentage of their net profit has been set aside for the staff and workers' bonus and welfare funds. These operating subsidiaries are not required to set aside any of their net profit as statutory common reserves if the accumulation of such reserves has reached at least 50% of their respective registered capital. Furthermore, if they record no net income for a year, they generally may not distribute dividends for that year.

## B. Significant Changes

Except as disclosed elsewhere in this annual report, we have not experienced any significant changes since the date of our audited consolidated financial statements included in this annual report.

### Item 9. The Offer and Listing

#### A. Offer and listing details.

Our ordinary shares are principally traded on the HKSE under the stock code "981." Our ordinary shares began trading on the HKSE on March 18, 2004. Our ADSs, which began trading on the NYSE on March 17, 2004, are traded under the symbol "SMI."

The table below sets forth the high and low closing prices on the HKSE and the NYSE for the ordinary shares and ADSs representing such ordinary shares, respectively, since 2013 and for the most recent six months.

	Stock Exchange of Hong Kong(1)		New York Stock Exchange(2)	
	Closing price per ordinary share		Closing Price per ADS	
	High Price	Low Price	High Price	Low Price
<b>Annual</b>				
Fiscal year 2013	HK\$ 7.20	HK\$ 4.00	US\$ 4.56	US\$ 2.56
Fiscal year 2014	HK\$ 8.60	HK\$ 5.80	US\$ 5.46	US\$ 3.76
Fiscal year 2015	HK\$ 9.50	HK\$ 6.00	US\$ 6.06	US\$ 3.91
Fiscal year 2016	HK\$ 12.18	HK\$ 5.90	US\$ 7.62	US\$ 3.90
Fiscal year 2017	HK\$ 14.36	HK\$ 7.03	US\$ 9.11	US\$ 4.56
<b>Quarterly</b>				
First Quarter 2016	HK\$ 7.80	HK\$ 6.40	US\$ 4.97	US\$ 4.06
Second Quarter 2016	HK\$ 7.00	HK\$ 5.900	US\$ 4.51	US\$ 3.90
Third Quarter 2016	HK\$ 9.00	HK\$ 6.20	US\$ 5.84	US\$ 4.04
Fourth Quarter 2016	HK\$ 12.18	HK\$ 8.80	US\$ 7.62	US\$ 5.39
First Quarter 2017	HK\$ 11.62	HK\$ 9.62	US\$ 7.56	US\$ 6.28
Second Quarter 2017	HK\$ 9.86	HK\$ 7.74	US\$ 6.32	US\$ 4.90
Third Quarter 2017	HK\$ 9.31	HK\$ 7.03	US\$ 5.90	US\$ 4.56
Fourth Quarter 2017	HK\$ 14.36	HK\$ 8.80	US\$ 9.11	US\$ 5.55
First Quarter 2018	HK\$ 12.76	HK\$ 8.86	US\$ 8.33	US\$ 5.86
<b>Monthly</b>				
October 2017	HK\$ 11.96	HK\$ 8.80	US\$ 7.59	US\$ 5.55
November 2017	HK\$ 14.36	HK\$ 10.84	US\$ 9.11	US\$ 6.78
December 2017	HK\$ 13.52	HK\$ 10.28	US\$ 8.56	US\$ 6.60
January 2018	HK\$ 12.76	HK\$ 11.20	US\$ 8.33	US\$ 7.23
February 2018	HK\$ 11.04	HK\$ 8.86	US\$ 7.07	US\$ 5.86
March 2018	HK\$ 11.40	HK\$ 10.18	US\$ 7.24	US\$ 6.23
April 2018 (through April 26, 2018)	HK\$ 10.72	HK\$ 9.49	US\$ 6.72	US\$ 6.18

(1) Upon the Share Consolidation becoming effective on 7 December 2016, every ten (10) issued and unissued shares of US\$0.0004 each were consolidated into one (1) consolidated share of US\$0.004 each. The closing price has been adjusted for the Share Consolidation.

(2) Each ADS represents 5 ordinary shares.

B. Plan of distribution

Not applicable.

C. Markets

Not applicable.

D. Selling Shareholders

Not applicable.

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E. Dilution

Not applicable.

F. Expenses of the Issue

Please see “Item 12.D — American Depositary Shares” regarding the expense of issue.

Item 10. Additional Information

A. Share Capital

Not applicable.

B. Memorandum and Articles of Association

The sections entitled “Item 10 — Additional Information — Memorandum and Articles of Association” in our annual report on Form 20 F for the fiscal year ended December 31, 2004, filed with the SEC on June 26, 2005 and in our annual report on Form 20 F for the fiscal year ended December 31, 2005, filed with the SEC on June 26, 2006 are incorporated by reference into this annual report. In addition, at the annual general meeting of our shareholders held on June 2, 2008, our shareholders approved an amendment to our Articles of Association to provide that a member of our board of directors may be removed by Ordinary Resolution.

C. Material Contracts

Sale and leaseback arrangements

In December 2016 and February 2017, there were two and three arrangements in consideration of US\$249.2 million and US\$250.6 million respectively, entered into by the Group with Sino IC Leasing (Tianjin) Co., Ltd. (a wholly-owned subsidiary of Sino IC Leasing) in the form of a sale and leaseback transaction with a repurchase option. A batch of production equipment of the Group was sold and leased back under the arrangements. As the repurchase prices are set at the expected fair value and the Group is not reasonably certain that it will exercise the repurchase options, the above transaction have been accounted for disposal of property, plant and equipment followed with an operating lease.

In July 2017, there were seven arrangements in total consideration of US\$410.8 million entered into by the Group with Xincheng Leasing (Tianjin) Co., Ltd, Xindian Leasing (Tianjin) Co., Ltd and Xinlu Leasing (Tianjin) Co., Ltd. (the three leasing companies are wholly-owned subsidiaries of Sino IC Leasing) respectively, in the form of a sale and leaseback transaction with a repurchase option. A batch of production equipment of the Group was sold and leased back under these arrangements. As the repurchase prices are set at the expected fair value and the Group is not reasonably certain that it will exercise the repurchase options, the above transactions have been accounted for a disposal of property, plant and equipment followed with an operating lease.

Shanghai Commercial Housing Sale Contract

On December 7, 2015, we executed Shanghai Commercial Housing Sale Contract with Shanghai Zhangjiang Integrated Circuit Industry Zone Developing Co., Ltd. in respect of acquiring the whole office building located at

1158 Zhangdong Road and 1059 Danguai Road, Building No. 1, named Zhangdong Business Center.

Zhangdong Business Center has 11 floors with floor area of 26,869.84 square meters. The total payment is RMB 487.1 million. The property has been delivered to us on December 21, 2015. We acquired Zhangdong Business Center for office use of SMIC Holdings Corporation mainly.

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Except agreements described above, we have not entered into any material contracts for the two years immediately preceding the date of this annual report other than in the ordinary course of business and other than those described elsewhere in this annual report on Form 20-F.

#### D. Exchange Controls

We receive government fundings and a portion of our sales in Renminbi, which is currently not a freely convertible currency. Approximately 28.4% of our sales for the year ended December 31, 2015, approximately 30.7% of our sales for the year ended December, 31, 2016 and approximately 30.3% of our sales for the year ended December 31, 2017 were denominated in Renminbi. While we have used these proceeds for the payment of our Renminbi expenses, we may in the future need to convert these sales into foreign currencies to allow us to purchase imported materials and equipment, particularly as we expect the proportion of our sales to China-based companies to increase in the future. Under China's existing foreign exchange regulations, payments of current account items, including profit distributions, interest payments and expenditures from trade may be made in foreign currencies without government approval, except for certain procedural requirements. The Chinese government may, however, at its discretion, restrict access in the future to foreign currencies for current account transactions and prohibit us from converting our Renminbi sales into foreign currencies.

#### E. Taxation

The following discussion of the material U.S. federal income and Cayman Islands tax consequences of an investment in our ADSs or ordinary shares is based upon laws and relevant interpretations thereof in effect as of the date of this prospectus, all of which are subject to change, possibly with retroactive effect. This discussion does not deal with all possible tax consequences relating to an investment in our ADSs or ordinary shares, such as the tax consequences under state, local and non-U.S. tax laws.

##### United States Federal Income Taxation

Except where noted, this summary deals only with the ownership and disposition of the ADSs and ordinary shares that are held as capital assets by U.S. Holders. This summary does not represent a detailed description of the U.S. federal income tax consequences applicable to U.S. Holders that are subject to special treatment under the U.S. federal income tax laws, including:

- banks;
- dealers in securities or currencies;
- financial institutions;
- real estate investment trusts;
- insurance companies;
- tax-exempt organizations;
- persons holding ADSs or ordinary shares as part of a hedging, integrated or conversion transaction, constructive sale or straddle;
- traders in securities that have elected the mark-to-market method of accounting;
- persons liable for the alternative minimum tax;

- persons who have ceased to be U.S. citizens or to be taxed as resident aliens;
- persons who own or are deemed to own more than 10% of our voting shares; or
- U.S. persons whose “functional currency” is not the U.S. dollar.

This summary is based in part on representations by the depositary and assumes that each obligation under the deposit agreement and any related agreement will be performed in accordance with its terms. Furthermore, the discussion below is based upon the provisions of the Internal Revenue Code of 1986, as amended, or the Code, and U.S. Treasury Regulations, Internal Revenue Service rulings and judicial decisions as of the date hereof. Such authorities may be replaced, revoked or modified, possibly on a retroactive basis, so as to result in U.S. federal income tax consequences different from those discussed below.

A U.S. Holder that holds ADSs or ordinary shares is urged to consult its own tax advisor concerning the U.S. federal income tax consequences as well as any consequences arising under the laws of any other taxing jurisdiction (including any U.S. state or locality) or any aspect of U.S. federal gift or estate law in light of the particular circumstances of the U.S. Holder.

A U.S. Holder is a beneficial owner of ADSs or ordinary shares that is a U.S. person. A U.S. person is:

- a citizen or resident of the United States;
- a corporation or other entity taxable as a corporation created or organized in or under the laws of the United States, any state thereof, or the District of Columbia;
- an estate the income of which is subject to U.S. federal income taxation, regardless of its source; or
- a trust if (i) it is subject to the primary supervision of a court within the United States and one or more U.S. persons have the authority to control all substantial decisions of the trust, or (ii) it has a valid election in effect under applicable U.S. Treasury regulations to be treated as a U.S. person.

If a partnership holds ADSs or ordinary shares, the tax treatment of a partner will generally depend on the status of the partner and the activities of the partnership. A U.S. Holder that is a partner of a partnership holding ADSs or ordinary shares is urged to consult its own tax advisors.

ADSs or Ordinary Shares. In general, for U.S. federal income tax purposes, a U.S. Holder of ADSs will be treated as the owner of the underlying ordinary shares that are represented by such ADSs. Deposits and withdrawals of ordinary shares in exchange for ADSs will not be subject to U.S. federal income taxation.

Distributions on ADSs or Ordinary Shares. Subject to the discussion under “-Passive Foreign Investment Company Rules” below, the gross amount of the cash distributions on the ADSs or ordinary shares will be taxable to a U.S. Holder as dividends to the extent of our current and accumulated earnings and profits, as determined under U.S. federal income tax principles. Subject to certain limitations, dividends paid to noncorporate U.S. Holders, including individuals may be eligible for a reduced rate of taxation if we are deemed to be a “qualified foreign corporation” for U.S. federal income tax purposes. A qualified foreign corporation includes:

- a foreign corporation that is eligible for the benefits of a comprehensive income tax treaty with the United States that includes an exchange of information program; or



a foreign corporation if its stock with respect to which a dividend is paid or its ADSs backed by such stock are readily tradable on an established securities market within the United States but does not include an otherwise qualified corporation that is a passive foreign investment company. We believe that we will be a qualified foreign corporation for so long as we are not a passive foreign investment company and the ordinary shares or ADSs are considered to be readily tradable on an established securities market within the United States. A U.S. Holder that exchanges its ADSs for ordinary shares may not be eligible for the reduced rate of taxation on dividends if the ordinary shares are not readily tradable on an established securities market within the United States. Our status as a qualified foreign corporation, however, may change.

Dividends will be includable in a U.S. Holder's gross income on the date actually or constructively received by such U.S. Holder, in the case of ordinary shares, or by the depository, in the case of ADSs. These dividends will not be eligible for the dividends-received deduction generally allowed to U.S. corporations in respect of dividends received from other U.S. corporations.

To the extent that the amount of any cash distribution exceeds our current and accumulated earnings and profits, the distribution will first be treated as a tax-free return of capital, causing a reduction in the adjusted basis of the ADSs or ordinary shares (thereby increasing the amount of gain, or decreasing the amount of loss, a U.S. Holder would recognize on a subsequent disposition of the ADSs or ordinary shares), and the balance in excess of adjusted basis will be subject to tax as capital gain.

To the extent we pay dividends on the ADSs or the ordinary shares in Hong Kong dollars, the U.S. dollar value of such dividends should be calculated by reference to the exchange rate prevailing on the date of actual or constructive receipt of the dividend, regardless of whether the Hong Kong dollars are converted into U.S. dollars at that time. If Hong Kong dollars are converted into U.S. dollars on the date of actual or constructive receipt of such dividends, the tax basis of the U.S. holder in such Hong Kong dollars will be equal to their U.S. dollar value on that date and, as a result, the U.S. Holder generally should not be required to recognize any foreign currency exchange gain or loss. Any gain or loss recognized on a subsequent conversion or other disposition of the Hong Kong dollars generally will be treated as U.S. source ordinary income or loss.

Dividends paid on the ADSs or ordinary shares will be income from sources outside of the United States and will constitute "passive category income" or, in the case of certain U.S. Holders, "general category income" for U.S. foreign tax credit limitation purposes.

Sale, Exchange or Other Disposition of ADSs or Ordinary Shares. Subject to the discussion under "- Passive Foreign Investment Company Rules" below, upon the sale, exchange or other disposition of ADSs or ordinary shares, a U.S. Holder generally will recognize capital gain or loss equal to the difference between the amount realized upon the sale, exchange or other disposition and the adjusted tax basis of the U.S. Holder in the ADSs or ordinary shares. A U.S. Holder's tax basis in an ADS or an ordinary share will be, in general, the price it paid for that ADS or ordinary share. The capital gain or loss generally will be long-term capital gain or loss if, at the time of sale, exchange or other disposition, the U.S. Holder has held the ADS or ordinary share for more than one year. Net long-term capital gains of noncorporate U.S. Holders, including individuals, are eligible for reduced rates of taxation. The deductibility of capital loss is subject to limitations. Any gain or loss that a U.S. Holder recognizes generally will be treated as gain or loss from sources within the United States for U.S. foreign tax credit limitation purposes.

Medicare Tax. US Holders who are individuals, estates or trusts may be required to pay up to an additional 3.8% tax on, among other things, dividends and capital gains. You are urged to consult your tax advisor regarding the potential tax consequences to you from the Medicare Tax, also called the Net Investment Income Tax.



Passive Foreign Investment Company Rules. We believe that we were not a passive foreign investment company for 2016. Based on the projected composition of our income, the timing of our anticipated capital expenditures and valuation of our assets, we do not expect to be a passive foreign investment company for 2017 and do not expect to become one in the future, although this may change.

In general, we will be deemed to be a passive foreign investment company for any taxable year in which either (i) at least 75% of our gross income is passive income or (ii) at least 50% of the value (determined on the basis of a quarterly average) of our assets is attributable to assets that produce or are held for the production of passive income. For this purpose, passive income generally includes dividends, interest, royalties, rents (other than rents and royalties derived in the active conduct of a trade or business and not derived from a related person), annuities and gains from assets that produce passive income.

If we are a PFIC in any taxable year, unless a mark-to-market election described below is made, U.S. Holders will generally be subject to additional taxes and interest charges on certain “excess” distribution we make and on any gain realized on the disposition or deemed disposition of ADSs or ordinary shares regardless of whether we continue to be a PFIC in the year of the “excess” distribution or disposition. Distributions in respect of a U.S. Holder’s ADSs or ordinary shares during the taxable year will generally constitute “excess” distributions if, in the aggregate, they exceed 125% of the average amount of distributions in respect of the U.S. Holder’s ADSs or ordinary shares over the three preceding taxable years or, if shorter, the portion of the U.S. Holder’s holding period before such taxable year.

To compute the tax on “excess” distributions or any gain, (i) the “excess” distribution or the gain will be allocated ratably to each day in the holding period; (ii) the amount allocated to the current year and any tax year before we became a PFIC will be taxed as ordinary income in the current year; (iii) the amount allocated to other taxable years will be taxable at the highest applicable marginal rate in effect for that year; and (iv) an interest charge at the rate for underpayment of taxes will be imposed with respect to any portion of the “excess” distribution or gain described under (iii) above that is allocated to such other taxable years. In addition, if we are PFIC, no distribution will qualify for taxation at the preferential rate for non-corporate holders discussed in “-Distributions on ADSs or Ordinary Shares” above.

If we are a PFIC in any year in which our ADSs or ordinary shares are “marketable”, a U.S. Holder will be able to avoid the “excess” distribution rules described above if such U.S. Holder makes a timely “mark-to-market” election with respect to its ADSs or ordinary shares. The ADSs or ordinary shares will be “marketable” as long as they remain regularly traded on a national securities exchange, such as the New York Stock Exchange or the Hong Kong Stock Exchange. If this election is made in a timely fashion, the U.S. Holder will generally recognize as ordinary income or ordinary loss the difference between the fair market value of the ADSs or ordinary shares on the last day of any taxable year and the U.S. Holder’s adjusted tax basis in the ADSs or ordinary shares. Any ordinary income resulting from this election will generally be taxed at ordinary income rates. Any ordinary losses will be deductible only to the extent of the net amount of previously included income as a result of the mark-to-market election, if any. The U.S. Holder’s adjusted tax basis in the ADSs or ordinary shares will be adjusted to reflect any such income or loss.

Alternatively, the “excess” distribution” rules described above may generally be avoided by electing to treat us as a “Qualified Electing Fund,” or QEF, under Section 1295 of the Internal Revenue Code of 1986, as amended. A QEF election is available only if the U.S. Holder receives an annual information statement from the PFIC setting forth its ordinary earnings and net capital gains, as calculated for U.S. federal income tax purposes. We will not provide our

U.S. Holders with the information statement necessary to make a QEF election. Accordingly, U.S. Holders will not be able to make or maintain such an election.



A U.S. Holder is urged to consult its own tax advisors concerning the availability of making a mark-to-market election or a qualified electing fund election and the U.S. federal income tax consequences of holding the ADSs or ordinary shares if we are deemed to be a passive foreign investment company in any taxable year.

**Information Reporting and Backup Withholding.** In general, unless a U.S. Holder belongs to a category of certain exempt recipients (such as corporations), information reporting requirements will apply to distributions on ADSs or ordinary shares made within the United States and to the proceeds of sales of ADSs or ordinary shares that are effected through the U.S. office of a broker or the non-U.S. office of a broker that has certain connections with the United States. Backup withholding currently imposed at a rate of 28% may apply to these payments if a U.S. Holder fails to provide a correct taxpayer identification number or certification of exempt status, fails to report in full dividend and interest income or, in certain circumstances, fails to comply with applicable certification requirements.

Any amounts withheld under the backup withholding rules may generally be allowed as a refund or a credit against a U.S. Holder's U.S. federal income tax, provided the U.S. Holder furnishes the required information to the Internal Revenue Service in a timely manner.

#### Cayman Islands Taxation

The following summary constitutes the opinion of Conyers Dill & Pearman (Cayman) Limited to the material Cayman Islands tax consequences of acquiring, owning, and transferring our ADSs and ordinary shares.

The Cayman Islands currently levy no taxes on individuals or corporations based upon profits, income, gains or appreciation and there is no taxation in the nature of inheritance tax or estate duty. You will not be subject to Cayman Islands taxation on payments of dividends or upon the repurchase by us of your ADSs or ordinary shares. In addition, you will not be subject to withholding tax on payments of dividends or distributions, including upon a return of capital, nor will gains derived from the disposal of ADSs or ordinary shares be subject to Cayman Islands income or corporation tax.

No Cayman Islands stamp duty will be payable by you in respect of the issue or transfer of ADSs or ordinary shares. However, an instrument transferring title to an ADS, if brought to or executed in the Cayman Islands, would be subject to Cayman Islands stamp duty. The Cayman Islands are not party to any double taxation treaties. There are no exchange control regulations or currency restrictions in the Cayman Islands.

We were incorporated under the laws of the Cayman Islands as an exempted company and, as such, obtained an undertaking in April 2000 from the Governor in Council of the Cayman Islands substantially that, for a period of twenty years from the date of such undertaking, no law which is enacted in the Cayman Islands imposing any tax to be levied on profit or income or gains or appreciation shall apply to us and no such tax and no tax in the nature of estate duty or inheritance tax will be payable, either directly or by way of withholding, on our ADSs or ordinary shares.

#### F. Dividends and Paying Agents

Not applicable.

#### G. Statements by Experts

Not applicable.



## H. Documents on Display

### Documents on Display

We are subject to the information requirements of the Exchange Act. In accordance with these requirements, we file reports and other information with the SEC. These materials, including this annual report and the exhibits thereto, may be inspected and copied at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. The public may obtain information on the operation of the SEC's Public Reference Room by calling the SEC in the United States at 1 800 SEC 0330. The SEC also maintains a website at <http://www.sec.gov> that contains reports, proxy statements and other information regarding registrants that file electronically with the SEC.

### Item 11. Quantitative and Qualitative Disclosures about Market Risk

Market risk is the risk of loss related to adverse changes in market prices, including foreign currency exchange rates and interest rates of financial instruments. We are exposed to these risks in the ordinary course of our business. Our exposure to these risks derives primarily from changes in interest rates and foreign currency exchange rates. To mitigate some of these risks, we utilize spot, forward, and derivative financial instruments.

#### Foreign Exchange Rate Fluctuation Risk

Our revenue, expense, and capital purchasing activities are primarily transacted in U.S. dollars. However, since we have operations consisting of manufacturing, sales activities and purchase outside of the U.S., we enter into transactions in other currencies. We are primarily exposed to changes in exchange rate for the Euro, Japanese Yen, and Renminbi.

To minimize these risks, we purchase foreign-currency forward exchange contracts with contract terms normally lasting less than twelve months to protect against the adverse effect that exchange rate fluctuations may have on foreign-currency denominated activities. These forward exchange contracts are principally denominated in Renminbi, Japanese Yen or Euros, and do not qualify for hedge accounting. As of December 31, 2017, the Group had had outstanding foreign currency forward exchange contract with notional amounts of US\$98.4 million, which will mature in 2018.

In 2015, 2016 and 2017, we entered into or issued several RMB denominated loan facility agreements, short-term notes and medium-term notes (the "RMB Debts") in the aggregate principal amount of RMB480 million, RMB5,447 million and RMB3,714.0 million (approximately US\$74.0 million, US\$785.2 million and US\$568.4 million), respectively. To minimize the currency risk, we entered into cross currency swap contracts with a contract term fully matching the repayment schedule of the whole part of this RMB long-term loan to protect against the adverse effect of exchange rate fluctuations arising from foreign-currency denominated loans. As of December 31, 2017, we had outstanding cross currency swap contracts with notional amounts of RMB6,398.0 million (approximately US\$979.2 million, as of December 31, 2016: US\$854.4 million and December 31, 2015: US\$74.0 million).

The carrying amounts of the Group's foreign currency denominated monetary assets and monetary liabilities at the end of the reporting period are as follows:

	Liabilities			Assets		
	12/31/15	12/31/16	12/31/17	12/31/15	12/31/16	12/31/17
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
EUR	76,462	112,827	125,171	33,968	39,619	72,181
JPY	5,553	41,976	30,422	2,986	35,237	29,245
RMB	586,931	2,714,492	2,410,284	909,497	1,633,433	1,765,846
Others	14,127	27,083	43,824	2,529	3,860	8,688

The following table details the Group's sensitivity to a 5% increase in the foreign currencies against USD. 5% represents management's assessment of the reasonably possible change in foreign exchange rates. The sensitivity analysis includes only outstanding foreign currency denominated monetary items and adjusts their translation at the period end for a 5% change in foreign currency rates. For a 5% decrease of the foreign currency against USD, there would be an equal and opposite impact on the profit or equity below predicted.

	EUR			JPY			RMB		
	2017	2016	2015	2017	2016	2015	2017	2016	2015
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
Profit or loss	(2,650)	(3,660)	(2,125)	(62)	(355)	(128)	(33,918)	(6,611)	16,128
Equity	(2,650)	(3,660)	(2,125)	(62)	(355)	(128)	(33,918)	(6,611)	16,128

The following table details the foreign currency exchange derivatives outstanding at the end of the reporting period:

	Liabilities			Assets		
	12/31/15	12/31/16	12/31/17	12/31/15	12/31/16	12/31/17
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
Forward foreign exchange contracts	—	—	2	172	—	2,111
Cross currency swap contracts	1,459	—	—	—	—	—
Cross currency swap contracts – cash flow hedges	—	80,518	2,661	—	—	22,337
	1,459	80,518	2,663	172	—	24,448

The following table details the Group's liquidity analysis for its derivative financial instruments. The table has been drawn up based on the undiscounted contractual net cash inflows and outflows on derivative instruments that settle on a net basis, and the undiscounted gross inflows and outflows on those derivatives that require gross settlement. When the amount payable or receivable is not fixed, the amount disclosed has been determined by reference to the projected interest rates as illustrated by the yield curves at the end of the reporting period.





	Less than 3 months USD'000	3 months to 1 year USD'000	1-5 years USD'000	above 5 years USD'000	Total USD'000
December 31, 2017					
Gross settled:					
Cross currency swap contracts— cash flow hedges					
— inflows	—	37,703	512,067	—	549,770
— (outflows)	—	(34,254)	(480,984)	—	(515,238)
Net settled:					
Cross currency swap contracts— cash flow hedges					
— net inflows	—	2,854	20,730	—	23,584
	—	6,303	51,813	—	58,116

	Less than 3 months USD'000	3 months to 1 year USD'000	1-5 years USD'000	above 5 years USD'000	Total USD'000
December 31, 2016					
Gross settled:					
Cross currency swap contracts— cash flow hedges					
— inflows	—	71,120	403,265	—	474,385
— (outflows)	—	(72,872)	(396,332)	—	(469,204)
Net settled:					
Cross currency swap contracts— cash flow hedges					
— net outflows	—	(1,355)	(1,475)	—	(2,830)
	—	(3,107)	5,458	—	2,351

	Less than 3 months USD'000	3 months to 1 year USD'000	1-5 years USD'000	above 5 years USD'000	Total USD'000
December 31, 2015					
Net settled:					
Cross currency swap contracts					
— net inflows	—	—	4,381	—	4,381
	—	—	4,381	—	4,381

We do not enter into foreign currency exchange contracts and cross currency swap contracts for speculative purposes. See “Item 3.D — Key Information — Risk Factors — Risks Related to Our Financial Condition and Business — Exchange rate fluctuations could increase our costs, which could adversely affect our operating results and the value of our ADSs” and “Item 3.D — Key Information — Risk Factors — Risks Related to Conducting Operations in China-Devaluation or appreciation in the value of the Renminbi or restrictions on convertibility of the Renminbi could adversely affect our business and operating results.”

## Interest Rate Risk

Our exposure to interest rate risks relates primarily to our long-term loans, which we generally assume to fund capital expenditures and working capital requirements. The table below presents annual principal amounts due and related weighted average implied forward interest rates by year of maturity for the our debt obligations outstanding as of December 31, 2017. Our long-term loans are all subject to variable interest rates. The interest rates on our U.S. dollar-denominated loans are linked to the LIBOR. The interest rates on our RMB denominated loan is linked to People's Bank of China ("PBOC") RMB Interest Rate. As a result, the interest rates on our loans are subject to fluctuations in the underlying interest rates to which they are linked.

	2018	2019	2020	2021	2022 and thereafter
	(Expected Maturity Date)				
	(in US\$ thousands, except percentages)				
US\$ denominated					
Average balance	1,116,960	1,049,487	418,775	57,160	13,038
Average interest rate	4.04	% 4.02	% 3.65	% 3.68	% 4.17
RMB denominated					
Average balance	1,809,756	1,434,967	1,116,799	734,679	208,823
Average interest rate	2.88	% 2.95	% 2.84	% 2.45	% 1.74
EUR denominated					
Average balance	51,587	43,030	23,585	16,411	2,873
Average interest rate	2.08	% 2.13	% 2.16	% 2.06	% 1.84
JYP denominated					
Average balance	3,702	2,602	—	—	—
Average interest rate	4.04	% 4.04	% —	% —	% —
Weighted average forward interest rate	3.37	% 3.44	% 3.09	% 2.58	% 1.77

## Item 12. Description of Securities Other Than Equity Securities

## A. Debt Securities

Not applicable.

## B. Warrants and Rights

Not applicable.

## C. Other Securities

Not applicable.



## D. American Depositary Shares

## Fees and Charges That An ADR Holder May Have To Pay

Category (as defined by SEC)	Depositary Actions	Associated Fee
(a) Depositing or substituting the underlying shares	Each person to whom ADSs are issued against deposits of Shares, including deposits in respect of Share Distributions, Rights and Other Distributions (as such terms are defined in paragraph (10) of the Deposit Agreement as filed with the SEC on March 10, 2004 which we are referred to herein as the "Depositary Agreement")	\$5.00 for each 100 ADSs (or portion thereof) evidenced by the new ADRs delivered
(b) Receiving or distributing dividends	Distribution of dividends	\$0.02 or less per ADS (or portion thereof)
(c) Selling or exercising rights	Distribution or sale of securities	Such fee being in an amount equal to the fee for the execution and delivery of ADSs referred to above which would have been charged as a result of the deposit of such securities
(d) Withdrawing an underlying security	Each person surrendering ADSs for withdrawal of Deposited Securities	\$5.00 for each 100 ADSs (or portion thereof) surrendered.
(e) Transferring, splitting or grouping receipts	Transfers, combining or grouping of depositary receipts	\$1.50 per ADR
(f) General depositary services, particularly those charged on an annual basis	Not applicable	Not applicable
(g) Expenses of the depositary	Fees and expenses incurred by the Depositary (including without limitation expenses incurred on behalf of Holders in connection with compliance with foreign exchange control regulations or any law or regulation relating to foreign investment) in delivery of Deposited Securities or otherwise in connection	The Company will pay all other charges and expenses of the Depositary and any agent of the Depositary (except the Custodian) pursuant to agreements from time to time between the Company and the Depositary, except (i) stock transfer or other taxes and other governmental charges (which are payable by Holders or persons depositing Shares), (ii) cable, telex and

with the Depositary's or its Custodian's compliance with applicable law, rule or regulation.

facsimile transmission and delivery charges incurred at the request of persons depositing, or Holders delivering Shares, ADRs or Deposited Securities (which are payable by such persons or Holders), (iii) transfer or registration fees for the registration of transfer of

Deposited Securities on any applicable register in connection with the deposit or withdrawal of

Deposited Securities (which are payable by persons depositing Shares or Holders withdrawing Deposited Securities; there are no such fees in respect of the Shares as of the date of the Deposit Agreement), and (iv) expenses of the Depositary in connection with the conversion of foreign currency into U.S. dollars (which are paid out of such foreign currency). These charges may be changed in the manner indicated in paragraph (16) of the Depositary Agreement

Fees and Payments Made By The Depositary To The Company

Direct Payments

We did not receive any direct payment from the depositary in 2017.

Indirect Payments

There is no waiver of on-going ADR program maintenance in 2017 as the amended financial terms agreed with J.P. Morgan.



Part II

Item 13. Defaults, Dividend Arrearages, and Delinquencies

None.

Item 14. Material Modifications to the Rights of Security Holders and Use of Proceeds

Not applicable.

Item 15. Controls and Procedures

Disclosure Controls and Procedures

Our Co-Chief Executive Officers and our Chief Financial Officer have evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act) as of December 31, 2017. Based on that evaluation, our Co-Chief Executive Officers and our Chief Financial Officer concluded that our disclosure controls and procedures were effective and designed to ensure that the information required to be disclosed by us in reports filed under the Exchange Act is recorded, processed, summarized and reported within the time periods specified by the SEC's rules, regulations and forms and to ensure that information required to be disclosed by us in the reports we file or submit is accumulated and communicated to our management as appropriate to allow timely decisions regarding required disclosure.

Report by Management on Internal Control over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act for our company. Internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements in accordance with IFRS and includes those policies and procedures that (a) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of a company's assets, (b) provide reasonable assurance that transactions are recorded as necessary to permit preparation of consolidated financial statements in accordance with IFRS and that a company's receipts and expenditures are being made only in accordance with authorizations of a company's management and directors and (c) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of a company's assets that could have a material effect on the consolidated financial statements.

Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurance with respect to consolidated financial statement preparation and presentation and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies and procedures may deteriorate.

As required by Section 404 of the Sarbanes-Oxley Act and related rules as promulgated by the SEC, our management assessed the effectiveness of the internal control over financial reporting as of December 31, 2017 using criteria established in Internal Control — Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission ("COSO"). Based on this evaluation, our management has concluded that the internal control over financial reporting was effective as of December 31, 2017.



### Attestation Report of the Registered Public Accounting Firm

PricewaterhouseCoopers Zhong Tian LLP, our independent registered public accounting firm, audited the effectiveness of our company's internal control over financial reporting as of December 31, 2017, as stated in its report, which appears on page F 2 and F 3 of this Form 20 F.

### Changes in Internal Control Over Financial Reporting

There were no changes in the design in our internal controls over financial reporting that occurred during the period covered by this annual report that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting.

### Item 16A. Audit Committee Financial Expert

Our board has determined that Mr. Lip-Bu Tan is an audit committee financial expert as defined under the applicable rules of the SEC issued pursuant to Section 407 of the Sarbanes-Oxley Act of 2002. Mr. Tan is independent as such term is defined under Section 303A.02 of the New York Stock Exchange Listed Company Manual.

### Item 16B. Code of Ethics

We have adopted a Code of Business Conduct and Ethics which is applicable to all of our employees, including our Co-Chief Executive Officer, Chief Financial Officer, and any other persons performing similar functions.

Our Code of Business Conduct and Ethics is available, free of charge, to any person who sends a request for a paper copy to us at Semiconductor Manufacturing International Corporation, 18 Zhangjiang Road, Pudong New Area, Shanghai, China 201203, Attention: Investor Relations.

### Item 16C. Principal Accountant Fees and Services

The following table sets forth the aggregate audit fees, audit-related fees, tax fees and all other fees we paid or incurred for audit services, audit-related services, tax services and other services rendered by our principal accountants during the fiscal years ended December 31, 2016 and December 31, 2017.

	2016	2017
	(in US\$ thousands)	
Audit and Audit-Related Fees(1)	US \$ 1,420	US \$ 1,413
Tax Fees(2)	US \$ 43	US \$ 39
Other Fees(3)	US \$ 544	US \$ 46

(1) Audit fees consist of the standard work associated with the statutory audit as well as audit of our annual financial statements including the review of our quarterly financial results and filings with the Securities and Exchange Commission, Hong Kong Stock Exchange and other regulators. Audit fees also include services relating to our compliance with the requirements of the Sarbanes - Oxley Act and services relating to our resolution of SEC related comments. Audit-related fees represent the aggregate fees billed in each of the last two fiscal years for assurance and related services by our principal accountant that are reasonably related to the performance of the audit or review of the registrant's financial statements and are not reported under "Audit fees".

- (2) Tax Fees represent the aggregate fees incurred in each of the fiscal years listed for professional services rendered by our principal accountant for tax compliance, tax advice and tax planning.

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(3) Other Fees represent the aggregate fees incurred in each of the fiscal years listed for products and services provided by our principal accountant, other than the services reported in (1) and (2).

PwC was the principal auditor for the year ended December 31, 2017. The audit committee has also approved and will continue to consider, on a case-by- case basis, all non-audit services. According to the charter of our audit committee, before our principal accountants are engaged by us to render audit or non- audit services, the engagement, including the nature and scope of the work to be performed and the associated fees, must be approved by our audit committee. Our audit committee has not established any pre-approval policies and procedures.

Item 16D. Exemptions from the Listing Standards of Audit Committees

Not applicable.

Item 16E. Purchases of Equity Securities by the Issuer and Affiliated Purchasers

Not applicable.

Item 16F. Changes in Registrant's Certifying Accountant

Not applicable.

Item 16G. Corporate Governance

We are incorporated under the laws of the Cayman Islands. The principal trading market for our shares is the Hong Kong Stock Exchange. We have adopted a set of corporate governance guidelines in accordance with the applicable laws, rule and regulations, including our Corporate Governance Policy and our Code of Business Conduct and Ethics, each of which are posted on our website.

Companies listed on the New York Stock Exchange, or the NYSE, must comply with certain corporate governance standards under Section 303A of the New York Stock Exchange Listed Company Manual, or the NYSE Standards. Because our American Depositary Shares are registered with the SEC and are listed on NYSE, we are also subject to certain U.S. corporate governance requirements, including many of the provisions of the Sarbanes-Oxley Act of 2002. However, because we are a "foreign private issuer", we are permitted to follow corporate governance practices in accordance with Cayman Islands law and the Hong Kong Stock Exchange Listing Rules in lieu of certain corporate governance standards contained in the NYSE Standards.

Set forth below is a brief summary of the significant differences between our corporate governance practices and the corporate governance standards applicable to U.S. domestic companies listed on the NYSE, or U.S. domestic issuers:

No requirement for majority of independent directors

NYSE Section 303A.01 requires a NYSE-listed U.S. domestic company to have a majority of independent directors on the board of directors. We have elected to follow the Hong Kong Stock Exchange Listing Rules, which require a company's board to include at least one-third (but not less than three) of the members of a company's board to be independent non-executive directors. The laws of the Cayman Islands do not contain



definition or requirements relating to “independent directors” nor require any member of a company’s board be independent.

#### Different standards to evaluate director independence

NYSE Section 303A.02 provides detailed tests that NYSE-listed U.S. domestic issuers must use for determining independence of directors. While we may not specifically apply the NYSE tests, our Board, through its nomination committee, assesses independence in accordance with Hong Kong Stock Exchange Listing Rules, and in accordance with Rule 10A-3 under the Exchange Act in the case of audit committee members, and considers whether there are any relationships or circumstances that are likely to affect such director’s independence from management.

#### Executive sessions

NYSE Section 303A.03 requires the non-executive directors of a NYSE-listed U.S. domestic company to meet in regularly scheduled executive sessions or closed-door sessions without management at least once a year. We are not required under the laws of Cayman Islands or Hong Kong Stock Exchange Listing Rules to have such regularly scheduled executive sessions. Our non-executive directors and independent directors meet with the Chairman of the Board, who is an executive director, at least once a year. Our executive directors and management are not present at these meetings.

#### No nominating/corporate governance committee composed entirely of independent directors

NYSE Section 303A.04 requires NYSE-listed U.S. domestic issuers to have a nominating/corporate governance committee composed entirely of independent directors. The nominating/corporate governance committee must have a written charter that sets out its purpose and certain minimum responsibilities required under NYSE Section 303A.04 (b)(i) and provides for an annual performance evaluation of the committee. We are not required under the laws of the Cayman Islands or the Hong Kong Stock Exchange Listing Rules to have a nominating/corporate governance committee composed entirely of independent directors.

Instead of a nominating/corporate governance committee, our Board has established a nomination committee with five members. Three members are independent non-executive directors while one member is an executive director and one is a non-executive director. The nomination committee is tasked to review the structure, size and composition (including the skills, knowledge and experience) of the Board at least annually, make recommendations on any

proposed changes to the Board to complement our corporate strategy, identify individuals suitably qualified to become Board members consistent with criteria approved by the Board, assess the independence of independent non-executive Directors, make recommendations to the Board on the selection of individuals nominated for directorships, and make recommendations to the Board on the appointment or re-appointment of Directors and succession planning for Directors, in particular the chairman of the Board and the Chief Executive Officer. The Board also adopted a Board Diversity Policy on August 8, 2013 that sets out diversity criteria considered by the Board in identifying candidates. However, such nomination committee is not responsible for developing and recommending to the Board a set of corporate governance guidelines applicable to the Company and overseeing the evaluation of the Board and management.

No compensation governance committee composed entirely of independent directors

NYSE Section 303A.05 require NYSE-listed U.S. domestic issuers to have a compensation committee composed entirely of independent directors. The compensation committee must have a written charter that sets out its purpose and certain minimum responsibilities and provides for an annual performance evaluation of the committee.

Our Board has established a compensation committee with five members. Three members are independent non-executive directors while two members are non-executive directors. We have elected to follow the Hong

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Kong Stock Exchange Listing Rules, which require that a majority of the members of the compensation committee be independent non-executive directors. The laws of the Cayman Islands do not define or contain requirements relating to “independent directors” nor require a Cayman Islands exempted company to have a compensation committee.

We believe that the composition of our compensation committee and its duties and responsibilities, as described in our annual report for the relevant year, are generally responsive to the relevant NYSE Standards applicable to NYSE-listed U.S. domestic issuers. However, the charter of our compensation committee does not address all aspects of NYSE Section 303A.05. For example, NYSE Section 303A.05(c) and Item 407(e)(5) of Regulation S-K under the Securities Act require compensation committees of NYSE listed U.S. domestic issuers to produce a compensation committee report annually and include such report in their annual proxy statements or annual reports on Form 10-K. We have not addressed this in our compensation committee charter as we are not required under the laws of the Cayman Islands to have a compensation committee, or under the Hong Kong Stock Exchange Listing Rules to have such a compensation committee report, though we are required to disclose certain corporate governance matters in relation to the compensation committee in our annual report filed with the Hong Kong Stock Exchange. We disclose the amounts of compensation of our directors on a named basis, remuneration payable to members of the senior management by band, and remuneration payable to the five highest individuals on an aggregate basis in our annual report in accordance with the requirements of the Hong Kong Stock Exchange Listing Rules.

No audit committee composed entirely of independent directors

NYSE Sections 303A.07(a) requires NYSE-listed U.S. domestic issuers to have an audit committee composed entirely of independent directors. We have elected to follow the Hong Kong Stock Exchange Listing Rules, which require that a majority of the members of the audit committee be independent non-executive directors. Our Board has established an audit committee with three members. Two members are independent non-executive directors while the third is a non-executive director. The laws of the Cayman Islands do not define or contain requirements relating to “independent directors” nor require a Cayman Islands exempted company to have an audit committee.

#### Audit committee requirements

NYSE Sections 303A.06 and 303A.07 require NYSE-listed U.S. domestic issuers to have an audit committee that satisfies the requirements of Rule 10A-3 under the Exchange Act, whose members meet certain requirements such as financial literacy and capacity for service in an audit committee, and have a written charter that sets out its purpose and certain minimum responsibilities. We believe that the composition of our audit committee and its duties and responsibilities, as described in our annual report for the relevant year, are generally responsive to the relevant NYSE Standards applicable to NYSE-listed U.S. domestic issuers. However, the charter for our audit and compensation committees may not address all aspects of NYSE Section 303A.06 and Rule 10A-3 under the Exchange Act. For example, NYSE Section 303A.07(a) requires the Board to evaluate the capacity of an audit committee member if he or she is simultaneously a member of the audit committee of more than three public companies. NYSE Section 303A.07(b)(iii)(G) requires an audit committee to draft clear policies for hiring external auditor's employees. Our audit committee has not drafted explicit policies regarding these matters, although our nomination committee continually evaluates the qualifications and capacity of directors and candidates for director (including audit committee members). Further, our audit committee pre-approves the hiring of any employee or former employee of the Company's independent auditor who was a member of the audit team during the three years preceding such hiring and the hiring of any employee or former employee of the independent auditor for senior positions regardless of whether that person was a member of the Company's audit team.

#### Internal audit requirements

NYSE Section 303A.07(c) requires NYSE-listed U.S. domestic issuers to have an internal audit function that provides ongoing assessments on the company's risk management processes and internal control system. Our Company has established an Internal Audit Department whose findings, as well as our Company's internal controls in general, are reviewed by our audit committee and has substantially the same functions as those contemplated by NYSE Section 303A.07(c).

#### No shareholder vote on equity compensation plans

NYSE Section 303A.08 requires that shareholders must be given the opportunity to vote on all equity compensation plans and material revisions to those plans. We have elected to follow the requirements of Cayman Islands law and the Hong Kong Stock Exchange Listing Rules in determining whether shareholder approval is required, and we do not follow the NYSE's detailed definition of what are considered "material revisions".

No explicit internal policy regarding for Board self-evaluation and succession planning

NYSE Section 303A.09 requires the board of directors of a NYSE-listed U.S. domestic issuer to conduct a self-evaluation at least annually to determine whether it and its committees are functioning effectively and draft succession planning policies which should include policies and principles for CEO selection and performance review, as well as policies regarding succession in the event of an emergency or the retirement of the CEO.

Neither the requirements of Cayman Islands law nor the Hong Kong Stock Exchange Listing Rules require explicit procedures for these matters, although our Board continually evaluates its performance and the performance of its committees, and reviews the professional development of directors and senior management.

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#### Code of Business Conduct and Ethics

NYSE Section 303A.10 requires a NYSE-listed U.S. domestic issuer to adopt and disclose a code of business conduct and ethics for directors, officers and employees, and promptly disclose any waivers of the code for directors or executive officers. We have adopted a Code of Business Conduct and Ethics, which is available on the Company website, whose scope is similar but not identical to what is required under NYSE Section 303A.10.

#### No explicit requirement for corporate governance certification

NYSE Section 303A.12(a) requires the CEO of a NYSE-listed U.S. domestic issuer to certify to the NYSE each year that he or she is not aware of any violation by the listed company of NYSE corporate governance listing standards, qualifying the certification to the extent necessary. NYSE Section 303A.12(b) requires the CEO of a NYSE-listed U.S. domestic issuer to promptly notify the NYSE in writing after any executive officer of the listed company becomes aware of any non-compliance with any applicable provision of NYSE Section 303A.

Neither the requirements of Cayman Islands law nor the Hong Kong Stock Exchange Listing Rules require such certifications. However, our CEO is required to certify in the Company's 20-F annual report that, to his or her knowledge the information contained therein fairly represents in all material respects the financial condition and results of operation of the Company.

#### Item 16H. Mine Safety Disclosure

Not applicable.

Part III

Item 17. Financial Statements

We have elected to provide the financial statements and related information specified in Item 18 in lieu of Item 17.

Item 18. Financial Statements

See pages F 1 to F 112.

Item 19. Exhibits

- Exhibit 1.1 Eleventh Amended and Restated Articles of Association, as adopted at the Registrant's annual general meeting of shareholders on June 2, 2008 (Filed as Exhibit 1.1 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2007, and incorporated herein by reference)
- Exhibit 4.1 Form of Indemnification Agreement, as adopted at the Registrant's annual general meeting of shareholders on May 6, 2005 (Filed as Exhibit 4.5 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2004, and incorporated herein by reference)
- Exhibit 4.2 Form of Service Contract between the Company and each of its executive directors (Filed as Exhibit 4.4 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2012, and incorporated herein by reference)
- Exhibit 4.3 Form of Service Contract between the Company and each of its non-executive directors and independent non-executive directors (Filed as Exhibit 4.5 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2012, and incorporated herein by reference)
- Exhibit 4.4 Subscription Agreement related to US\$200 Million Zero Coupon Convertible Bonds due 2018, dated October 24, 2013 by and between the Company as the Issuer and Deutsche Bank AG, Hong Kong Branch and J.P.Morgan Securities PLC as the Manager (Filed as Exhibit 4.11 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2013, and incorporated herein by reference)
- Exhibit 4.5 Subscription Agreement related to US\$95 Million Zero Coupon Convertible Bonds due 2018 convertible into our ordinary shares, dated as of June 4, 2014 and entered into by SMIC and J.P. Morgan Securities PLC and Deutsche Bank AG, Hong Kong Branch (Filed as Exhibit 4.12 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2014, and incorporated herein by reference)
- Exhibit 4.6 Subscription Agreement related to US\$500 Million 4.125% Bonds due 2019, dated as of September 25, 2014 and entered into by SMIC and J.P. Morgan Securities PLC and Deutsche Bank AG, Hong Kong Branch (Filed as Exhibit 4.13 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2014, and incorporated herein by reference)
- Exhibit 4.7 Placing and Subscription Agreement related to issue of 2,590,000,000 new ordinary shares, dated as of June 4, 2014 and entered into by SMIC, J.P. Morgan Securities PLC, Deutsche Bank AG, Hong Kong Branch and Datang Holdings (Hongkong) Investment Company Limited (Filed as Exhibit 4.14 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2014, and incorporated herein by reference)



- Exhibit 4.8 Share Purchase Agreement related to the proposed issuance of 4,700,000,000 new shares dated as of February 12, 2015, and entered into by the Company and China Integrated Circuit Industry Investment Fund Co., Ltd. (Filed as Exhibit 4.15 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2014, and incorporated herein by reference)
- Exhibit 4.9 Share Purchase Agreement by and between the Company and Datang Holdings (Hongkong) Investment Company Limited dated as of June 11, 2015 (Filed as Exhibit 4.16 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2015, and incorporated herein by reference)
- Exhibit 4.10 Share Purchase Agreement by and between the Company and Country Hill Limited dated as of June 11, 2015 (Filed as Exhibit 4.17 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2015, and incorporated herein by reference)
- Exhibit 4.11 Summary of Disposal Agreement between Siltech Shanghai and JCET, Subscription Agreement between Siltech Shanghai and JCET, and Supplemental Agreement relating to Disposal Agreement between SilTech Shanghai and JCET (Filed as Exhibit 4.15 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2016, and incorporated herein by reference)
- Exhibit 4.12 Subscription Agreement relating to US\$450 Million Zero Coupon Convertible Bonds due 2022 convertible into our ordinary shares of Semiconductor Manufacturing International Corporation, dated as of June 7, 2016 and entered into by SMIC and J.P. Morgan Securities PLC (Filed as Exhibit 4.16 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2016, and incorporated herein by reference)
- Exhibit 4.13 Summary of Sale and Purchase Agreement to Acquire 70% of the Corporate Capital of LFoundry S.r.l. (Filed as Exhibit 4.17 to the Registrant's Annual Report on Form 20 F for the fiscal year ended December 31, 2016, and incorporated herein by reference)
- Exhibit 4.14 Placing Agreement related to issue of 241,418,625 new ordinary shares, dated as of June 4, 2017 and entered into by SMIC, J.P. Morgan Securities PLC and Deutsche Bank AG, Hong Kong Branch(1)
- Exhibit 4.15 Subscription Agreement related to issue of US\$65 million perpetual subordinated convertible securities, dated as of June 4, 2017 and entered into by SMIC, J.P. Morgan Securities PLC, Deutsche Bank AG, Hong Kong Branch and BARCLAYS BANK PLC(1)
- Exhibit 4.16 Summary of purchase of Shanghai Commercial Housing from Shanghai Zhangjiang Integrated Circuit Industry Zone Developing Co., Ltd(1)
- Exhibit 4.17 Summary of sale and leaseback arrangements entered into by the Group with the subsidiaries of Sino IC Leasing Co., Ltd.(1)
- Exhibit 4.18 2014 Stock Option Plan Prospectus(1)
- Exhibit 4.19 2014 Equity Incentive Plan Prospectus(1)
- Exhibit 8.1 List of Significant Subsidiaries(1)
- Exhibit 12.1 Certification of Co-Chief Executive Officer under Section 302 of the U.S. Sarbanes-Oxley Act of 2002(2)
- Exhibit 12.2 Certification of Co-Chief Executive Officer under Section 302 of the U.S. Sarbanes-Oxley Act of 2002(2)
- Exhibit 12.3 Certification of CFO under Section 302 of the U.S. Sarbanes-Oxley Act of 2002(2)
- Exhibit 13.1 Certification of Co-Chief Executive Officer under Section 906 of the U.S. Sarbanes-Oxley Act of 2002(2)
- Exhibit 13.2 Certification of Co-Chief Executive Officer under Section 906 of the U.S. Sarbanes-Oxley Act of 2002(2)





	<u>Certification of CFO under Section 906 of the U.S. Sarbanes-Oxley Act of 2002</u> (2)
Exhibit 13.3	
Exhibit 15.1	<u>Consent of PricewaterhouseCoopers Zhong Tian LLP</u> (1)
101.INS	XBRL Instance Document(1)
101.SCH	XBRL Taxonomy Extension Schema Document(1)
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document(1)
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document(1)
101.LAB	XBRL Taxonomy Extension Label Linkbase Document(1)
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document(1)

(1) Previously filed as exhibits to the registrant's Form 20-F filed on April 27, 2018.

(2) Filed herewith.

SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20 F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

SEMICONDUCTOR MANUFACTURING INTERNATIONAL CORPORATION

Date: February 15, 2019      By:    /s/ Dr. Gao Yonggang  
Name: Dr. Gao Yonggang  
Title: Chief Financial Officer, Executive Director and Joint Company  
Secretary

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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Semiconductor Manufacturing International Corporation

We have audited the accompanying consolidated statement of financial position of Semiconductor Manufacturing International Corporation and its subsidiaries (the "Company") as of December 31, 2017, 2016, and 2015, and the related consolidated statements of profit or loss and other comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 31, 2017, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2017, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2017, 2016, and 2015, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2017 in conformity with International Financial Reporting Standards as issued by the International Accounting Standards Board. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2017, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the Report by Management on Internal Control over Financial Reporting appearing under Item 15 of Form 20-F. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.



### Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PricewaterhouseCoopers Zhong Tian LLP

Shanghai, the People's Republic of China

April 27, 2018

We have served as the Company's auditor since 2014.

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## SEMICONDUCTOR MANUFACTURING INTERNATIONAL CORPORATION AND SUBSIDIARIES

## CONSOLIDATED STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME

For the year ended December 31, 2017, 2016 and 2015

(In USD'000, except share and per share data)

	Notes	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Revenue	5	3,101,175	2,914,180	2,236,415
Cost of sales		(2,360,431)	(2,064,499)	(1,553,795)
Gross profit		740,744	849,681	682,620
Research and development expenses, net		(427,111)	(318,247)	(237,157)
Sales and marketing expenses		(35,796)	(35,034)	(41,876)
General and administration expenses		(197,899)	(157,371)	(213,177)
Other operating income (expense), net	7	44,957	177	31,594
Profit from operations		124,895	339,206	222,004
Interest income		27,090	11,243	5,199
Finance costs	8	(18,021)	(23,037)	(12,218)
Foreign exchange gains or losses		(12,694)	(1,640)	(26,349)
Other gains or losses, net	9	16,499	(2,113)	55,611
Share of (loss) profit of investment accounted for using equity method		(9,500)	(13,777)	(13,383)
Profit before tax		128,269	309,882	230,864
Income tax benefit (expense)	10	(1,846)	6,552	(8,541)
Profit for the year	11	126,423	316,434	222,323
Other comprehensive income (loss)				
Items that may be reclassified subsequently to profit or loss				
Exchange differences on translating foreign operations		23,213	(19,031)	(8,185)
Change in value of available-for-sale financial assets		(2,381)	807	452
Cash flow hedges	28	35,143	(34,627)	—
Share of other comprehensive income of joint ventures accounted for using equity method	28	17,646	—	—
Others		(131)	1	130
Items that will not be reclassified to profit or loss				
Actuarial gains or losses on defined benefit plans	28	(436)	1,520	—
Total comprehensive income (loss) for the year		199,477	265,104	214,720
Profit (loss) for the year attributable to:				
Owners of the Company		179,679	376,630	253,411
Non-controlling interests		(53,256)	(60,196)	(31,088)
		126,423	316,434	222,323
Total comprehensive income (loss) for the year attributable to:				

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Owners of the Company		251,135	326,191	245,803
Non-controlling interests		(51,658)	(61,087)	(31,083)
		199,477	265,104	214,720
Earnings per share*				
Basic	14	\$0.04	\$0.09	\$0.07
Diluted	14	\$0.04	\$0.08	\$0.06

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\*The basic and diluted earnings per share for the prior years have been adjusted to reflect the impact of the share consolidation, on the basis that every ten ordinary shares of US\$0.0004 each consolidated into one ordinary share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016 (“Share Consolidation”). Please refer to Note 14 for more details.

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SEMICONDUCTOR MANUFACTURING INTERNATIONAL CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENT OF FINANCIAL POSITION

As of December 31, 2017, 2016 and 2015

	Notes	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Assets				
Non-current assets				
Property, plant and equipment	16	6,523,403	5,687,357	3,903,818
Land use right		97,477	99,267	91,030
Intangible assets	17	219,944	248,581	224,279
Investments in associates	19	758,241	240,136	181,331
Investments in joint ventures	20	31,681	14,359	17,646
Deferred tax assets	10	44,875	45,981	44,942
Derivative financial instrument		—	32,894	30,173
Other financial assets	21	17,598	—	—
Restricted cash	22	13,438	20,080	—
Other assets	23	42,810	42,870	32,078
Total non-current assets		7,749,467	6,431,525	4,525,297
Current assets				
Inventories	24	622,679	464,216	387,326
Prepayment and prepaid operating expenses		34,371	27,649	40,184
Trade and other receivables	25	616,308	645,822	499,846
Other financial assets	21	683,812	31,543	282,880
Restricted cash	22	336,043	337,699	302,416
Cash and cash equivalent		1,838,300	2,126,011	1,005,201
		4,131,513	3,632,940	2,517,853
Assets classified as held-for-sale	26	37,471	50,813	72,197
Total current assets		4,168,984	3,683,753	2,590,050
Total assets		11,918,451	10,115,278	7,115,347

SEMICONDUCTOR MANUFACTURING INTERNATIONAL CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENT OF FINANCIAL POSITION

As of December 31, 2017, 2016 and 2015

	Notes	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Equity and liabilities				
Capital and reserves				
Ordinary shares, \$0.004 par value, 10,000,000,000 shares authorized, 4,916,106,889, 4,252,922,259 and 4,207,374,896 shares issued and outstanding at December 31, 2017, 2016 and 2015, respectively	27	19,664	17,012	16,830
Share premium	27	4,827,619	4,950,948	4,903,861
Reserves	28	134,669	93,563	96,644
Retained earnings (accumulated deficit)	29	187,008	(910,849)	(1,287,479)
Equity attributable to owners of the Company		5,168,960	4,150,674	3,729,856
Perpetual subordinated convertible securities	30	64,073	—	—
Non-controlling interests		1,488,302	1,252,553	460,399
Total equity		6,721,335	5,403,227	4,190,255
Non-current liabilities				
Borrowings	31	1,743,939	1,233,594	416,036
Convertible bonds	32	403,329	395,210	—
Bonds payable	33	496,689	494,909	493,207
Medium-term notes	34	228,483	214,502	—
Deferred tax liabilities	10	16,412	15,382	7,293
Deferred government funding		299,749	265,887	175,604
Other financial liabilities	35	1,919	74,170	—
Other liabilities	36	99,817	37,497	65,761
Total non-current liabilities		3,290,337	2,731,151	1,157,901
Current liabilities				
Trade and other payables	37	1,050,460	940,553	1,047,766
Borrowings	31	440,608	209,174	113,068
Short-term notes		—	86,493	—
Convertible bonds	32	—	391,401	392,632
Deferred government funding		193,158	116,021	79,459
Accrued liabilities	38	180,912	230,450	132,452
Other financial liabilities	35	744	6,348	1,459
Current tax liabilities	10	270	460	355
Other liabilities	36	40,627	—	—
Total current liabilities		1,906,779	1,980,900	1,767,191
Total liabilities		5,197,116	4,712,051	2,925,092
Total equity and liabilities		11,918,451	10,115,278	7,115,347

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Table of ContentsSEMICONDUCTOR MANUFACTURING INTERNATIONAL CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

For the year ended December 31, 2017, 2016 and 2015

		Change in value of available- for-sale financial assets	Convertible bonds equity reserve	Defined benefit plan reserve	Cash flow hedges	Share of other comprehensive income of joint ventures accounted for using equity method	Others	Accumulated deficit	Attribu- to own- the Cor- USD'00
equity- ttle mployee enefits serve SD'000 (Note 28)	Foreign currency translation reserve USD'000 (Note 28)	USD'000 (Note 28)	USD'000 (Note 28)	USD'000 (Note 28)	USD'000 (Note 28)	USD'000 (Note 28)	USD'000	USD'000 (Note 29)	USD'00
4,540	4,229	—	29,564	—	—	—	—	(1,540,890)	2,948,4
—	—	—	—	—	—	—	—	253,411	253,411
—	(8,185)	447	—	—	—	—	130	—	(7,608)
—	(8,185)	447	—	—	—	—	130	253,411	245,802
—	—	—	—	—	—	—	—	—	508,802
(2,169)	—	—	—	—	—	—	—	—	8,743
3,088	—	—	—	—	—	—	—	—	18,088
—	—	—	—	—	—	—	—	—	—
919	—	—	—	—	—	—	—	—	535,630
0,459	(3,956)	447	29,564	—	—	—	130	(1,287,479)	3,729,8
—	—	—	—	—	—	—	—	376,630	376,630
—	(18,131)	798	—	1,520	(34,627)	—	1	—	(50,439)
—	(18,131)	798	—	1,520	(34,627)	—	1	376,630	326,191

8,594)	—	—	—	—	—	—	—	—	17,610
3,838	—	—	—	—	—	—	—	—	13,838
—	—	—	—	—	—	—	—	—	—
—	—	—	(821)	—	—	—	—	—	10,244
—	—	—	52,935	—	—	—	—	—	52,935
—	—	—	—	—	—	—	—	—	—
(7,756)	—	—	52,114	—	—	—	—	—	94,627
5,703	(22,087)	1,245	81,678	1,520	(34,627)	—	131	(910,849)	4,150,6
—	—	—	—	—	—	—	—	179,679	179,679
—	21,590	(2,356)	—	(436)	35,143	17,646	(131)	—	71,456
—	21,590	(2,356)	—	(436)	35,143	17,646	(131)	179,679	251,135
—	—	—	—	—	—	—	—	—	326,140
(8,220)	—	—	—	—	—	—	—	—	17,088
7,495	—	—	—	—	—	—	—	—	17,495
—	—	—	—	—	—	—	—	—	—
—	—	—	(29,625)	—	—	—	—	—	399,099
—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	910,849	—

—	—	—	—	—	—	—	—	7,329	7,329
(25)	—	—	(29,625)	—	—	—	—	918,178	767,15
4,978	(497)	(1,111)	52,053	1,084	516	17,646	—	187,008	5,168,9

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Table of ContentsSEMICONDUCTOR MANUFACTURING INTERNATIONAL CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENT OF CASH FLOWS

For the year ended December 31, 2017, 2015 and 2014

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Operating activities			
Profit for the year	126,423	316,434	222,323
Adjustments for:			
Income tax (benefit) expense	1,846	(6,552)	8,541
Amortization of intangible assets and land use right	65,348	56,705	50,541
Depreciation of property, plant and equipment	906,034	673,161	473,008
Expense recognized in respect of equity-settled share-based payments	18,214	14,210	18,329
Interest income recognized in profit or loss	(27,090)	(11,243)	(5,199)
Finance costs	18,021	23,037	12,218
Gain on disposal of associates	(18,884)	—	—
Gain on disposal of available for sale investment	—	—	(387)
Loss (gain) on disposal of property, plant and equipment and assets classified as held-for-sale	(17,513)	1,846	(28,949)
Loss on deconsolidation of subsidiaries	—	—	57
Bad debt allowance on trade receivables	301	201	528
Impairment loss recognized (reversed) on inventory	46,857	3,706	(13,338)
Impairment loss recognized on property, plant and equipment	—	7,529	—
Net (gain) loss arising on financial instruments at fair value through profit or loss	(6,890)	7,617	(51,375)
Net (gain) loss on foreign exchange	26,101	(26,236)	15,608
Reversal of bad debt allowance on trade and other receivables	(438)	(10,412)	(541)
Share of loss (profit) of investment using equity method	9,500	13,777	13,383
Other non-cash loss (gain)	—	175	—
	1,147,830	1,063,955	714,747
Operating cash flows before movements in working capital: Increase in trade and other receivables	59,084	(100,980)	(39,902)
Increase in inventories	(205,320)	(51,344)	(57,947)
Increase in restricted cash relating to operating activities	(81,795)	(147,834)	(16,675)
Decrease (increase) in prepaid operating expenses	(6,722)	17,615	(856)
Decrease (increase) in other assets	2,938	1,576	(6,476)
Increase in trade and other payables	109,374	59,046	39,096
Increase in deferred government funding	110,999	126,845	8,280
(Decrease) increase in accrued liabilities and other liabilities	(40,604)	25,031	49,928
Cash generated from operations	1,095,784	993,910	690,195
Interest paid	(34,086)	(27,497)	(26,174)
Interest received	19,425	12,464	4,894
Income taxes (paid) received	(437)	(1,675)	282
Net cash generated from operating activities	1,080,686	977,202	669,197

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CONSOLIDATED STATEMENT OF CASH FLOWS

For the year ended December 31, 2017, 2016 and 2015

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Investing activities			
Payments to acquire financial assets	(829,371)	(917,272)	(2,412,259)
Proceeds on sale of financial assets	186,509	1,175,768	2,782,181
Payments for property, plant and equipment	(2,287,205)	(2,757,202)	(1,230,812)
Proceeds from disposal of property, plant and equipment	688,192	259,799	87,890
Proceeds from disposal of joint ventures and available-for-sale investment	1,028	5,523	1,204
Payments for intangible assets	(43,755)	(85,729)	(29,384)
Payments for land use rights	—	—	(9,265)
Payments to acquire long-term investment	(467,885)	(87,645)	(160,777)
Change in restricted cash relating to investing activities	90,093	34,614	181,963
Net cash outflow from deconsolidation of subsidiaries	—	—	(297)
Payment for business combination	—	(73,216)	—
Distributions received from joint ventures	255	2,027	—
Net cash used in investing activities	(2,662,139)	(2,443,333)	(789,556)
Financing activities			
Proceeds from borrowings	1,194,659	1,239,265	341,176
Repayment of borrowings	(537,016)	(228,928)	(453,730)
Proceeds from issuance of new shares	326,351	—	508,807
Proceeds from issuance of convertible bonds	—	441,155	—
Proceeds from issuance of short-term and medium-term notes	—	314,422	—
Repayment of short-term notes	(87,858)	—	—
Proceeds from issuance of perpetual subordinated convertible securities	64,350	—	—
Proceeds from exercise of employee stock options	17,105	17,610	8,743
Proceeds from non-controlling interests-capital contribution	294,000	831,254	132,082
Net cash from financing activities	1,271,591	2,614,778	537,078
Net increase in cash and cash equivalent	(309,862)	1,148,647	416,719
Cash and cash equivalent at the beginning of the year	2,126,011	1,005,201	603,036
Effects of exchange rate changes on the balance of cash held in foreign currencies	22,151	(27,837)	(14,554)
Cash and cash equivalent at the end of the year	1,838,300	2,126,011	1,005,201



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NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

For the year ended December 31, 2017

1. General information

Semiconductor Manufacturing International Corporation (the “Company” or “SMIC”) was established as an exempt company incorporated under the laws of the Cayman Islands on April 3, 2000. The address of the principal place of business is 18 Zhangjiang Road, Pudong New Area, Shanghai, China, 201203. The registered address is at PO Box 309, Uglan House, Grand Cayman, KY1 1104 Cayman Islands. Semiconductor Manufacturing International Corporation is an investment holding company.

Semiconductor Manufacturing International Corporation and its subsidiaries (hereinafter collectively referred to as the “Group”) are mainly engaged in the computer-aided design, manufacturing, testing, packaging, and trading of integrated circuits and other semiconductor services, as well as designing and manufacturing semiconductor masks. The principal subsidiaries and their activities are set out in Note 18.

These financial statements are presented in US dollars, unless otherwise stated.

2. Application of new and revised International Financial Reporting Standards (“IFRSs”)

(a) New and revised IFRSs that are mandatorily effective for the year ended December 31, 2017

In the current year, the Group has adopted the following amendments to IFRSs that are mandatorily effective for an accounting period that begins on or after January 1, 2016. Such adoption did not have a material effect on the Group’s consolidated financial statements.

Amendment to IAS 7 “Statement of cash flows”

The amendment introduces an additional disclosure that will enable users of financial statements to evaluate changes in liabilities arising from financing activities. This amendment is effective for an entity’s annual IFRS financial statements for a period beginning on or after 1 January 2017, with earlier application permitted.

Amendments to IAS 12 “Income taxes”

The amendments clarify how to account for deferred tax assets related to debt instruments measured at fair value. This amendment is effective for an entity’s annual IFRS financial statements for a period beginning on or after January 1, 2017, with earlier application permitted.

None of the above amendments to IFRSs has had a significant financial effect on these financial statements. Disclosure has been made in note 41 to the consolidated financial statements upon the adoption of amendments to IAS 7, which require an entity to provide disclosures that enable users of financial statements to evaluate changes in liabilities arising from financing activities, including both changes arising from cash flows and non-cash changes.

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(b) New or revised IFRSs in issue but not yet effective

The Group has not applied the following new and revised IFRSs that have been issued but are not yet effective:

New or revised IFRS	Effective date
IFRS 9 — Financial Instruments	On or after January 1, 2018
IFRS 15 — Revenue from contracts with customers	On or after January 1, 2018
Amendments to IFRS 2 – Classification and measurement of share-based payment transactions	On or after January 1, 2018
Amendments to IAS 28 – Investments in associates and joint ventures	On or after January 1, 2018
IFRS 16 — Lease	On or after January 1, 2019
IFRS 17 - Insurance Contracts	On or after January 1, 2021
Amendments to IFRS 10 and IAS 28 — Sale or contribution of assets between an investor and its association or joint venture	Not yet determined
IFRIC 22 — Foreign Currency Transactions and Advance Consideration	On or after January 1, 2018
IFRIC 23 — Uncertainty over Income Tax Treatments	On or after January 1, 2019

The new IFRS 9 standard addresses the classification, measurement and derecognition of financial assets and financial liabilities, introduces new rules for hedge accounting and a new impairment model for financial assets.

#### Classification and measurement

##### (i) Financial assets

The Group has assessed that its financial assets currently measured at amortized cost and fair value through profit or loss (“FVTPL”) will continue with their respective classification and measurements upon the adoption of IFRS 9. With respect to the Group’s financial assets currently classified as available-for-sale, these are investments in equity securities which the Group may classify as either FVTPL or irrevocably elect to designate as fair value through comprehensive income (“FVOCI”) on transition to IFRS 9. If the equity security is not held for trading and the entity irrevocably elects to designate that security as FVTOCI, gains or losses realised on the sale of financial assets at FVOCI will no longer be transferred to profit or loss on sale, but instead reclassified below the line from the FVOCI reserve to retained earnings.

At December 31, 2017, the Group held available-for-sale equity investments at cost and at FVTOCI amounted to US\$24.8 million (Note 23). The Group plans to recognise any fair value changes in respect of all the available-for-sale equity investments in profit or loss (i.e. FVTPL) as they arise.

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This will give rise to a change in accounting policies as before adopting IFRS 9, the Group only recognises the fair value changes of available-for-sale equity investments measured at FVTOCI in other comprehensive income until disposal or impairment, when gains or losses are recycled to profit or loss in accordance with the Group's policies.

This change in policy will have no impact on the Group's net assets and total comprehensive income, but will increase volatility in profit or loss in 2018. The Group does not expect that the adoption of IFRS 9 will have a significant impact on the classification and measurement of its financial assets.

### (ii) Financial Liabilities

The classification and measurement requirements for financial liabilities under IFRS 9 are largely unchanged from IAS 39, except that IFRS 9 requires the fair value change of a financial liability designated at FVTPL that is attributable to changes of that financial liability's credit risk to be recognized in other comprehensive income (without reclassification to profit or loss). The Group does not expect that the adoption of IFRS 9 will have a significant impact on the classification and measurement of its financial liabilities.

### Hedge accounting

The new hedge accounting rules will align the accounting for hedging instruments more closely with the group's risk management practices. As a general rule, more hedge relationships might be eligible for hedge accounting, as the standard introduces a more principles-based approach. The group has confirmed that its current hedge relationships will qualify as continuing hedges upon the adoption of IFRS 9. The Group does not expect that the adoption of IFRS 9 will have a significant impact on the accounting for hedging relationships.

### Impairment

The new impairment model requires the recognition of impairment provisions based on expected credit losses ("ECL") rather than only incurred credit losses as is the case under IAS 39. It applies to financial assets classified at amortized cost, debt instruments measured at FVOCI, contract assets under IFRS 15 Revenue from Contracts with Customers, lease receivables, loan commitments and certain financial guarantee contracts. This new impairment model may result in an earlier recognition of credit losses on the Group's trade receivables and other financial assets. The Group has assessed how its impairment provisions would be affected by the new model. So far it has concluded that there would be no material impact for the application of the new impairment requirements.

The new standard also introduces expanded disclosure requirements and changes in presentation. These are expected to change the nature and extent of the group's disclosures about its financial instruments particularly in the year of the adoption of the new standard.

IFRS 9 is effective for annual periods beginning on or after January 1, 2018 on a retrospective basis. Comparatives for 2017 will not be restated, except in relation to changes in the fair value of foreign exchange forward contracts attributable to forward points, which will be recognized in the costs of hedging reserve.

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The new IFRS 15 standard establishes a single revenue recognition framework. The core principle of the framework is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods and services. IFRS 15 supersedes existing revenue recognition guidance including IAS 18 Revenue, IAS 11 Construction Contracts and related interpretations.

IFRS 15 requires the application of a 5 steps approach to revenue recognition:

- Step 1: Identify the contract(s) with a customer
- Step 2: Identify the performance obligations in the contract
- Step 3: Determine the transaction price
- Step 4: Allocate the transaction price to each performance obligation
- Step 5: Recognize revenue when each performance obligation is satisfied

IFRS 15 includes specific guidance on particular revenue related topics that may change the current approach taken under IFRS. The standard also significantly enhances the qualitative and quantitative disclosures related to revenue.

The standard permits either a full retrospective method to each prior reporting period presented or a modified retrospective approach with the cumulative effect of initially applying the guidance recognized at the date of initial application. In 2017, the Group has performed a detailed assessment on the impact of the adoption of IFRS 15 and decided to adopt a modified retrospective approach. The expected changes in accounting policies will not have any significant impact on the Group's financial statements.

IFRS 16 will result in almost all leases being recognized on the balance sheet, as the distinction between operating and finance leases is removed. Under the new standard, an asset (the right to use the leased item) and a financial liability to pay rentals are recognized. The only exceptions are short-term and low-value leases. The accounting for lessors will not significantly change. IFRS 16 is effective for annual periods beginning on or after January 1, 2019. Early application is permitted, but not before an entity applies IFRS 15. A lessee can choose to apply the standard using either a full retrospective or a modified retrospective approach. The standard's transition provision permit certain reliefs. In 2018, the Group will continue to assess the potential effect of IFRS 16 on its consolidated financial statements.

The Group is in the process of evaluating the impact of the new standards or amendments on its consolidated financial statements.

There are no other standards that are not yet effective and that would be expected to have a material impact on the entity in the current or future reporting periods and on foreseeable future transactions.

### 3. Significant accounting policies

#### Statement of compliance

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The consolidated financial statements have been prepared in accordance with all applicable IFRS issued by the IASB. In addition, the consolidated financial statements include applicable disclosures required by the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited.

### Basis of preparation

The consolidated financial statements have been prepared on a historical cost basis, except for certain financial instruments that are measured at fair value as explained in the accounting policies set out below. The consolidated financial statements are presented in US dollars and all values are rounded to the nearest thousand, except when otherwise indicated.

Historical cost is generally based on the fair value of the consideration given in exchange for goods and services.

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, regardless of whether that price is directly observable or estimated using another valuation technique. In estimating the fair value of an asset or a liability, the Group takes into account the characteristics of the asset or liability if market participants would take those characteristics into account when pricing the asset or liability at the measurement date. Fair value for measurement and/or disclosure purposes in these consolidated financial statements is determined on such a basis, except for share-based payment transactions that are within the scope of IFRS 2, and measurements that have some similarities to fair value but are not fair value, such as net realizable value in IAS 2 or value in use in IAS 36.

In addition, for financial reporting purposes, fair value measurements are categorized into Level 1, 2 or 3 based on the degree to which the inputs to the fair value measurements are observable and the significance of the inputs to the fair value measurement in its entirety, which are described as follows:

- Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date;
- Level 2 inputs are inputs, other than quoted prices included within Level 1, that are observable for the asset or liability, either directly or indirectly; and
- Level 3 inputs are unobservable inputs for the asset or liability.

The principal accounting policies are set out below.

### Basis of consolidation

The consolidated financial statements incorporate the financial statements of the Group and entities (including structured entities) controlled by the Group. Control is achieved when the Group:

- has power over the investee;
- is exposed, or has rights, to variable returns from its involvement with the investee; and
- has the ability to use its power to affect its returns.

The Group reassesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.

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When the Group has less than a majority of the voting rights of an investee, it has power over the investee when the voting rights are sufficient to give it the practical ability to direct the relevant activities of the investee unilaterally. The Group considers all relevant facts and circumstances in assessing whether or not the Group's voting rights in an investee are sufficient to give it power, including:

- the size of the Group's holding of voting rights relative to the size and dispersion of holdings of the other vote holders;
- potential voting rights held by the Group, other vote holders or other parties;
- rights arising from other contractual arrangements; and
- any additional facts and circumstances that indicate that the Group has, or does not have, the current ability to direct the relevant activities at the time that decisions need to be made, including voting patterns at previous shareholders' meetings.

Consolidation of a subsidiary begins when the Group obtains control over the subsidiary and ceases when the Group loses control of the subsidiary. Specifically, income and expenses of a subsidiary acquired or disposed of during the year are included in the consolidated statement of profit or loss and other comprehensive income from the date the Group gains control until the date when the Group ceases to control the subsidiary.

Profit or loss and each component of other comprehensive income are attributed to the owners of the Company and to the non-controlling interests. Total comprehensive income of subsidiaries is attributed to the owners of the Company and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies into line with the Group's accounting policies.

All intragroup assets and liabilities, equity, income, expenses and cash flows relating to transactions between members of the Group are eliminated in full on consolidation.

### Changes in the Group's ownership interests in existing subsidiaries

Changes in the Group's ownership interests in subsidiaries that do not result in the Group losing control over the subsidiaries are accounted for as equity transactions. The carrying amounts of the Group's interests and the non-controlling interests are adjusted to reflect the changes in their relative interests in the subsidiaries. Any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid or received is recognized directly in equity and attributed to owners of the Company.

When the Group loses control of a subsidiary, a gain or loss is recognized in profit or loss and is calculated as the difference between (i) the aggregate of the fair value of the consideration received and the fair value of any retained interest and (ii) the previous carrying amount of the assets (including goodwill), and liabilities of the subsidiary and any non-controlling interests. All amounts previously recognized in other comprehensive income in relation to that subsidiary are accounted for as if the Group had directly disposed of the related assets or liabilities of the subsidiary (i.e. reclassified to profit or loss or transferred to another category of equity as specified/permitted by applicable IFRSs). The fair value of any investment retained in the former subsidiary at the date when control is lost is regarded as the fair value on initial recognition for subsequent accounting under IAS 39, when applicable, the cost on initial recognition of an investment in an associate or a joint venture.





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Separate Principal Statement

Investments in subsidiaries are accounted for at the equity method in accordance with IAS 27 and IAS 28. Under the equity method, the investments are initially recognized at cost and adjusted thereafter to recognize the group's share of the post-acquisition profits or losses of the investee in profit or loss, and the group's share of movements in other comprehensive income of the investee in other comprehensive income. When the group's share of losses in an equity-accounted investment equals or exceeds its interest in the entity, including any other unsecured long-term receivables, the group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the other entity.

Investments in associates

An associate is an entity over which the Group has significant influence and that is neither a subsidiary nor an interest in a joint venture. Significant influence is the power to participate in the financial and operating policy decisions of the investee but is not control or joint control over those policies.

The results and assets and liabilities of associates are incorporated in these consolidated financial statements using the equity method of accounting. Under the equity method, investments in associates are initially recognized in the consolidated statement of financial position at cost and adjusted thereafter to recognize the Group's share of the profit or loss and other comprehensive income of the associates. When the Group's share of losses of an associate exceeds the Group's interest in that associate (which includes any long-term interests that, in substance, form part of the Group's net investment in the associate), the Group discontinues recognizing its share of further losses. Additional losses are recognized only to the extent that the Group has incurred legal or constructive obligations or made payments on behalf of that associate.

An investment in an associate is accounted for using the equity method from the date on which the investee becomes an associate. On acquisition of the investment in an associate, any excess of the cost of the investment over the Group's share of the net fair value of the identifiable assets and liabilities of the investee is recognized as goodwill, which is included within the carrying amount of the investment. Any excess of the Group's share of the net fair value of the identifiable assets and liabilities over the cost of the investment, after reassessment, is recognized immediately in profit or loss in the period in which the investment is acquired.

The requirements of IAS 39 are applied to determine whether it is necessary to recognize any impairment loss with respect to the Group's investment in an associate. When necessary, the entire carrying amount of the investment (including goodwill) is tested for impairment in accordance with IAS 36 Impairment of Assets as a single asset by comparing its recoverable amount (higher of value in use and fair value less costs to sell) with its carrying amount. The difference between the recoverable amount and the carrying amount is recognized as impairment loss in the profit or loss. Any reversal of that impairment loss is recognized in accordance with IAS 36 to the extent that the recoverable amount of the investment subsequently increases.

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The Group discontinues the use of the equity method from the date when the investment ceases to be an associate, or when the investment is classified as held-for-sale. When the Group retains an interest in the former associate and the retained interest is a financial asset, the Group measures the retained interest at fair value at that date and the fair value is regarded as its fair value on initial recognition in accordance with IAS 39. The difference between the carrying amount of the associate at the date the equity method was discontinued, and the fair value of any retained interest and any proceeds from disposing of a part interest in the associate is included in the determination of the gain or loss on disposal of the associate. In addition, the Group accounts for all amounts previously recognized in other comprehensive income in relation to that associate on the same basis as would be required if that associate had directly disposed of the related assets or liabilities. Therefore, if a gain or loss previously recognized in other comprehensive income by that associate would be reclassified to profit or loss on the disposal of the related assets or liabilities, the Group reclassifies the gain or loss from equity to profit or loss (as a reclassification adjustment) when the equity method is discontinued.

When the Group reduces its ownership interest in an associate but the Group continues to use the equity method, the Group reclassifies to profit or loss the proportion of the gain or loss that had previously been recognized in other comprehensive income relating to that reduction in ownership interest if that gain or loss would be reclassified to profit or loss on the disposal of the related assets or liabilities.

When a group entity transacts with an associate of the Group, profits and losses resulting from the transactions with the associate are recognized in the Group's consolidated financial statements only to the extent of interests in the associate that are not related to the Group. Unrealized losses are eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates have been changed where necessary to ensure consistency with the policies adopted by the Group.

In accordance with IAS 39, when the financial statements of an associate used in applying the equity method are prepared as of a different reporting date from that of the Group, adjustments are made by the Group for the effects of significant transactions or events. In no circumstances can the difference between the reporting date of the associate and that of the Group be more than three months and the length of the reporting periods and any difference in the reporting dates are the same from period to period.

### Investments in joint ventures

The Group has applied IFRS 11 to all joint arrangements. Under IFRS 11 investments in joint arrangements are classified as either joint operations or joint ventures depending on the contractual rights and obligations each investor. The Group has assessed the nature of its joint arrangements and determined them to be joint ventures. Joint ventures are accounted for using the equity method.

Under the equity method of accounting, interests in joint ventures are initially recognized at cost and adjusted thereafter to recognize the Group's share of the post-acquisition profits or losses and movements in other comprehensive income. The Group's investments in joint ventures include goodwill identified on acquisition. Upon the acquisition of the ownership interest in a joint venture, any difference between the cost of the joint venture and the Group's share of the net fair value of the joint venture's identifiable assets and liabilities is accounted for as goodwill. When the Group's share of losses in a joint venture equals or exceeds its interests in the joint ventures (which includes any long-term interests that, in substance, form part of the Group's net investment in the joint ventures), the Group does not recognize further losses, unless it has incurred obligations or made payments on behalf of the joint ventures.

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Unrealized gains on transactions between the Group and its joint ventures are eliminated to the extent of the Group's interest in the joint ventures. Unrealized losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of the joint ventures have been changed where necessary to ensure consistency with the policies adopted by the Group.

### Non-current assets held-for-sale

Non-current assets and disposal groups are classified as held-for-sale if their carrying amount will be recovered principally through a sale transaction rather than through continuing use. This condition is regarded as met only when the sale is highly probable and the non-current asset (or disposal group) is available for immediate sale in its present condition. Management must be committed to the sale, which should be expected to qualify for recognition as a completed sale within one year from the date of classification.

Non-current assets (and disposal groups) classified as held-for-sale are measured at the lower of their previous carrying amount and fair value less costs of disposal.

### Revenue recognition

Revenue is measured at the fair value of the consideration received or receivable. Revenue is reduced for estimated customer returns, rebates and other similar allowances.

### Sale of goods

The Group manufactures semiconductor wafers for its customers based on the customers' designs and specifications pursuant to manufacturing agreements and/or purchase orders. The Group also sells certain semiconductor standard products to customers.

Revenue from the sale of goods is recognized when the goods are delivered and titles have passed, at which time all the following conditions are satisfied:

- the Group has transferred to the buyer the significant risks and rewards of ownership of the goods;
- the Group retains neither continuing managerial involvement to the degree usually associated with ownership nor effective control over the goods sold;
- the amount of revenue can be measured reliably;
- it is probable that the economic benefits associated with the transaction will flow to the Group; and
- the costs incurred or to be incurred in respect of the transaction can be measured reliably.

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Customers have the right of return within one year pursuant to warranty provisions. The Group typically performs tests of its products prior to shipment to identify yield rate per wafer. Occasionally, product tests performed after shipment identify yields below the level agreed with the customer. In those circumstances, the customer arrangement may provide for a reduction to the price paid by the customer or for the costs to return products and to ship replacement products to the customer. The Group estimates the amount of sales returns and the cost of replacement products based on the historical trend of returns and warranty replacements relative to sales as well as a consideration of any current information regarding specific known product defects at customers that may exceed historical trends.

### Gain on sale of real estate property

Gain from sales of real estate property is recognized when all the following conditions are satisfied: 1) sales contract executed, 2) full payment collected, or down payment collected and non-cancellable mortgage contract is executed with borrowing institution, 3) and the respective properties have been delivered to the buyers.

### Interest income

Interest income from a financial asset is recognized when it is probable that the economic benefits will flow to the Group and the amount of income can be measured reliably. Interest income is accrued on a time basis, by reference to the principal outstanding and at the effective interest rate applicable.

### Foreign currencies

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates ("the functional currency"). The consolidated financial statements are presented in United States dollar ("US dollar"), which is the Company's functional and the Group's presentation currency.

In preparing the financial statements of each individual group entity transactions in currencies other than the entity's functional currency (foreign currencies) are recognized at the rates of exchange prevailing at the dates of the transactions. At the end of each reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Non-monetary items that are measured in terms of historical cost in a foreign currency are not retranslated.

Exchange differences on monetary items are recognized in profit or loss in the period in which they arise.

For the purposes of presenting consolidated financial statements, the assets and liabilities of the Group's foreign operations are translated into United States dollars using exchange rates prevailing at the end of each reporting period. Income and expense items are translated at the average exchange rates for the period, unless exchange rates fluctuate significantly during that period, in which case the exchange rates at the dates of the transactions are used. Exchange differences arising, if any, are recognized in other comprehensive income and accumulated in equity (attributed to non-controlling interests as appropriate).

On the disposal of a foreign operation (i.e. a disposal of the Group's entire interest in a foreign operation, or a disposal involving loss of control over a subsidiary that includes a foreign operation, or a disposal involving loss of significant influence over an associate that includes a foreign operation), all of the exchange differences accumulated in equity in respect of that operation attributable to the owners of the Company are reclassified to profit or loss.



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### Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use or sale.

Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalization.

All other borrowing costs are recognized in profit or loss in the period in which they are incurred.

### Government funding

Government funding is not recognized in profit or loss until there is reasonable assurance that the Group will comply with the conditions attaching to them and that the funding will be received.

Government funding relating to costs are deferred and recognized in profit or loss over the period necessary to match them with the costs that they are intended to compensate.

Government funding relating to property, plant and equipment, whose primary condition is that the Group should purchase, construct or otherwise acquire non-current assets, are recognized as deferred income in the consolidated statements of financial position and transferred to profit or loss on a systematic and rational basis over the useful lives of the related assets.

Government funding that is receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the Group with no future related cost are recognized in profit or loss in the period in which they become receivable.

### Retirement benefits

The Group's local Chinese employees are entitled to a retirement benefit based on their salary and their length of service in accordance with a state- managed pension plan. The PRC government is responsible for the pension liability to these retired staff. The Group is required to make contributions to the state- managed retirement plan at a rate equal to 19.0% to 20.0% (the standard in Shenzhen site ranges from 13% to 14% according to Shenzhen government regulation) of the monthly basic salary of current employees. The Group has no further payment obligations once the contributions have been paid. The costs are recognized in profit or loss when incurred.

Besides, LFoundry S.r.l. ("LFoundry", the Company's majority-owned subsidiary in Avezano, Italy) employees are entitled to a retirement plan and a defined benefit plan. The liability recognized in the consolidated statement of financial position in respect of defined benefit plans is the present value of the defined benefit obligation at the end of the reporting period. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality corporate bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related defined benefit obligation.

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### Share-based payment arrangements

Equity-settled share-based payments to employees and others providing similar services are measured at the fair value of the equity instruments at the grant date. Details regarding the determination of the fair value of equity-settled share-based transactions are set out in Note 39.

The fair value determined at the grant date of the equity-settled share-based payments is expensed on a straight-line basis over the vesting period, based on the Group's estimate of equity instruments that will eventually vest, with a corresponding increase in equity. At the end of each reporting period, the Group revises its estimate of the number of equity instruments expected to vest. The impact of the revision of the original estimates, if any, is recognized in profit or loss such that the cumulative expense reflects the revised estimate, with a corresponding adjustment to the equity-settled employee benefits reserve. When share options are exercised, the amount previously recognized in the reserve will be transferred to share premium.

Equity-settled share-based payment transactions with parties other than employees are measured at the fair value of the goods or services received, except where that fair value cannot be estimated reliably, in which case they are measured at the fair value of the equity instruments granted, measured at the date the entity obtains the goods or the counterparty renders the service.

### Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

#### Current tax

The tax currently payable is based on taxable profit for the year. Taxable profit differs from profit before tax as reported in the consolidated statements of profit or loss and other comprehensive income because of items of income or expense that are taxable or deductible in other years and items that are never taxable or deductible. The Group's liability for current tax is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period.

#### Deferred tax

Deferred tax is recognized on temporary differences between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable profit. Deferred tax liabilities are generally recognized for all taxable temporary differences. Deferred tax assets are generally recognized for all deductible temporary differences to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilized. Such deferred tax assets and liabilities are not recognized if the temporary difference arises from goodwill or from the initial recognition other than in a business combination of other assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit.

Deferred tax liabilities are recognized for taxable temporary differences associated with investments in subsidiaries and associates, except where the Group is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments are only recognized to the extent that it is probable that there will be sufficient taxable profits against which to utilize the benefits of the temporary differences and they are expected to reverse in the foreseeable future.





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The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered.

Deferred tax liabilities and assets are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset is realized, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

Property, plant and equipment

Property, plant and equipment held for use in the production or supply of goods or services, or for administrative purposes, are stated in the consolidated statement of financial position at their costs, less any subsequent accumulated depreciation and subsequent accumulated impairment losses. Such cost includes the cost of replacing part of the property, plant and equipment and borrowing costs for long-term construction projects if the recognition criteria are met.

The Group constructs certain of its plant and equipment. In addition to costs under the construction contracts, external costs that are directly related to the construction and acquisition of such plant and equipment are capitalized. Depreciation is recorded at the time assets are ready for their intended use. Such properties are classified to the appropriate categories of property, plant and equipment when completed and ready for intended use. Depreciation of these assets, on the same basis as other property assets, commences when the assets are ready for their intended use.

Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognized. All other repairs and maintenance are charged to the profit or loss during the financial period in which they are incurred.

An item at property, plant and equipment is derecognized upon disposal or when no future economic benefits are expected to arise from the continued use of the asset. Any gain or loss arising on the disposal or retirement of an item of property, plant and equipment is determined as the difference between the sales proceeds and the carrying amount of the asset and is recognized in profit or loss.

Depreciation is recognized so as to write off the cost of items of property, plant and equipment other than properties under construction over their estimated useful lives, using the straight-line method. The estimated useful lives and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimate accounted for on a prospective basis.

The following useful lives are used in the calculation of depreciation.

Buildings	25 years
Plant and equipment	5–10 years
Office equipment	3–5 years
Leasehold equipment under finance leases	Over the lease terms

Land use right

Land use rights, which are all located in the PRC, are recorded at cost and are charged to profit or loss ratably over the term of the land use agreements which range from 50 to 70 years.

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### Intangible assets

Acquired intangible assets which consists primarily of technology, licenses and patents, are carried at cost less accumulated amortization and any accumulated impairment loss. Amortization is computed using the straight-line method over the expected useful lives of the assets of three to ten years. The estimated useful life and amortization method are reviewed at the end of each reporting period, with effect of any changes in estimate being accounted for on a prospective basis.

### Business combinations

Business combinations are accounted for using the acquisition method. The consideration transferred is measured at the acquisition date fair value which is the sum of the acquisition date fair values of assets transferred by the Group, liabilities assumed by the Group to the former owners of the acquiree and the equity interests issued by the Group in exchange for control of the acquiree. For each business combination, the Group elects whether to measure the non-controlling interests in the acquiree that are present ownership interests and entitle their holders to a proportionate share of net assets in the event of liquidation at fair value or at the proportionate share of the acquiree's identifiable net assets. All other components of non-controlling interests are measured at fair value. Acquisition-related costs are expensed as incurred.

When the Group acquires a business, it assesses the financial assets and liabilities assumed for appropriate classification and designation in accordance with the contractual terms, economic circumstances and pertinent conditions as at the acquisition date. This includes the separation of embedded derivatives in host contracts of the acquiree.

Any contingent consideration to be transferred by the acquirer is recognized at fair value at the acquisition date. Contingent consideration classified as an asset or liability is measured at fair value with changes in fair value recognized in profit or loss. Contingent consideration that is classified as equity is not remeasured and subsequent settlement is accounted for within equity.

### Goodwill

Goodwill is initially measured at cost, being the excess of the aggregate of the consideration transferred, the amount recognized for non-controlling interests and any fair value of the Group's previously held equity interests in the acquiree over the identifiable net assets acquired and liabilities assumed. If the sum of this consideration and other items is lower than the fair value of the net assets acquired, the difference is, after reassessment, recognized in profit or loss as a gain on bargain purchase.

After initial recognition, goodwill is measured at cost less any accumulated impairment losses. Goodwill is tested for impairment annually or more frequently if events or changes in circumstances indicate that the carrying value may be impaired. The Group performs its annual impairment test of goodwill as at December 31. For the purpose of impairment testing, goodwill acquired in a business combination is, from the acquisition date, allocated to each of the Group's cash-generating units, or groups of cash-generating units, that are expected to benefit from the synergies of the combination, irrespective of whether other assets or liabilities of the Group are assigned to those units or groups of units.

Impairment is determined by assessing the recoverable amount of the cash-generating unit ("CGU") to which the goodwill relates. Where the recoverable amount of the CGU is less than the carrying amount, an impairment loss is recognized. An impairment loss recognized for goodwill is not reversed in a subsequent period.



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Where goodwill has been allocated to a CGU and part of the operation within that unit is disposed of, the goodwill associated with the operation disposed of is included in the carrying amount of the operation when determining the gain or loss on the disposal. Goodwill disposed of in these circumstances is measured based on the relative value of the operation disposed of and the portion of the CGU retained.

### Impairment of tangible and intangible assets other than goodwill

At the end of each reporting period, the Group reviews the carrying amounts of its tangible and intangible assets to determine whether there is any indication that those assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the asset is estimated in order to determine the extent of the impairment loss (if any). When it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the cash-generating unit to which the asset belongs. When a reasonable and consistent basis of allocation can be identified, corporate assets are also allocated to individual cash-generating units, or otherwise they are allocated to the smallest group of cash-generating units for which a reasonable and consistent allocation basis can be identified.

Recoverable amount is the higher of fair value less costs to sell and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted.

If the recoverable amount of an asset (or CGU) is estimated to be less than its carrying amount, the carrying amount of the asset (or CGU) is reduced to its recoverable amount. An impairment loss is recognized immediately in profit or loss.

When an impairment loss subsequently reverses, the carrying amount of the asset (or a CGU) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognized for the asset (or CGU) in prior years. A reversal of an impairment loss is recognized as income.

### Leases

Leases that transfer substantially all the rewards and risks of ownership of assets to the Group, other than legal title, are accounted for as finance leases. At the inception of a finance lease, the cost of the leased asset is capitalized at the present value of the minimum lease payments and recorded together with the obligation, excluding the interest element, to reflect the purchase and financing. Assets held under capitalized finance leases are included in property, plant and equipment, and depreciated over the shorter of the lease terms and the estimated useful lives of the assets. The finance costs of such leases are charged to the statement of profit or loss so as to provide a constant periodic rate of charge over the lease terms.

Leases where substantially all the rewards and risks of ownership of assets remain with the lessor are accounted for as operating leases. Where the Group is the lessee, rentals payable under operating leases net of any incentives received from the lessor are charged to the statement of profit or loss on the straight-line basis over the lease terms.

### Cash and cash equivalents

Cash equivalents are short-term, highly liquid investments that are readily convertible to known amounts of cash and are subjected to an insignificant risk of changes in value, with original maturities of three months or less.



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### Restricted cash

Restricted cash consists of bank deposits pledged against letters of credit, short-term and long-term credit facilities, and unused government funding for certain research and development projects. Changes of restricted cash pledged against letter of credit, short-term and long-term credit facilities and changes of restricted cash paid for property, plant and equipment are presented as investing activity in consolidated statements of cash flows. Changes of restricted cash of unused government funding for expensed research and development activities are presented as operating activity in consolidated statements of cash flows.

### Inventories

Inventories are stated at the lower of cost and net realizable value. Costs of inventories are determined on a weighted average basis. Net realizable value represents the estimated selling price for inventories less all estimated costs of completion and costs necessary to make the sale.

### Provisions

Provisions are recognized when the Group has a present obligation (legal or constructive) as a result of a past event, it is probable that the Group will be required to settle the obligation, and a reliable estimate can be made of the amount of the obligation.

The amount recognized as a provision is the best estimate of the consideration required to settle the present obligation at the end of the reporting period, taking into account the risks and uncertainties surrounding the obligation. When a provision is measured using the cash flows estimated to settle the present obligation, its carrying amount is the present value of those cash flows (when the effect of the time value of money is material).

When some or all of the economic benefits required to settle a provision are expected to be recovered from a third party, a receivable is recognized as an asset if it is virtually certain that reimbursement will be received and the amount of the receivable can be measured reliably.

### Financial instruments

Financial assets and financial liabilities are recognized when a group entity becomes a party to the contractual provisions of the instruments.

Financial assets and financial liabilities are initially measured at fair value. Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities other than financial assets and financial liabilities at fair value through profit or loss are added to or deducted from the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs directly attributable to the acquisition of financial assets or financial liabilities at fair value through profit or loss are recognized immediately in profit or loss.

### Financial assets

Financial assets are classified into the following specified categories: financial assets 'at fair value through profit or loss' ("FVTPL") and 'available- for-sale' ("AFS") financial assets and 'loans and receivables'. The classification depends on the nature and purpose of the financial assets and is determined at the time of initial recognition. All regular way purchases or sales of financial assets are recognized and derecognized on a trade date basis. Regular way purchases or sales are purchases or sales of financial assets that require delivery of assets within the time frame established by



regulation or convention in the marketplace.

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### Effective interest method

The effective interest method is a method of calculating the amortized cost of a debt instrument and of allocating interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash receipts (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the debt instrument, or, where appropriate, a shorter period, to the net carrying amount on initial recognition.

Income is recognized on an effective interest basis for debt instruments other than those financial assets classified as at FVTPL.

### Financial assets at FVTPL

Financial assets are classified as at FVTPL when the financial asset is held for trading. A financial asset is classified as held for trading if:

- it has been acquired principally for the purpose of selling in the near term; or
- it is a part of a portfolio of identified financial instruments that the Group manages together and has a recent actual pattern of short-term profit-taking; or
- it is a derivative that is not designated and effective as a hedging instrument.

Financial assets at FVTPL (including foreign currency forward contracts and financial products sold by banks) are stated at fair value, with any gains or losses arising on remeasurement recognized in profit or loss. The net gain or loss recognized in profit or loss incorporates any dividend or interest earned on the financial asset and is included in the 'other gains and losses' line item.

### Available-for-sale financial assets (AFS financial assets)

AFS financial assets are non-derivatives that are either designated as AFS or are not classified as (a) loans and receivables, (b) held-to-maturity investments or (c) financial assets at fair value through profit or loss.

AFS financial assets are initially recognized at fair value plus transaction costs and subsequently carried at fair value, with changes in fair value recognized in other comprehensive income.

When securities classified as available for sale are sold or impaired, the accumulated fair value adjustments recognized in equity are include in the income statement as "other gains and losses".

Interest on available-for-sale securities calculated using the effective interest method is recognized in the income statement as part of "other income".

Dividends on AFS equity instruments are recognized in profit or loss when the Group's right to receive the dividends is established.

### Loans and receivables

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. Loans and receivables including trade and other receivables, and cash and bank balances and restricted cash are measured at amortized cost using the effective interest method, less any impairment loss.



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Interest income is recognized by applying the effective interest rate, except for short-term receivables when the effect of discounting is immaterial.

### Impairment of financial assets

Financial assets, other than those at FVTPL, are assessed for indicators of impairment at the end of each reporting period. Financial assets are considered to be impaired when there is objective evidence that, as a result of one or more events that occurred after the initial recognition of the financial asset, the estimated future cash flows of the investment have been affected.

For all other financial assets, objective evidence of impairment could include:

- significant financial difficulty of the issuer or counterparty; or
- breach of contract, such as a default or delinquency in interest or principal payments; or
- it becoming probable that the borrower will enter bankruptcy or financial re-organization.

For certain categories of financial assets, such as trade receivables, assets are assessed for impairment on a collective basis even if they were assessed not to be impaired individually. Objective evidence of impairment for a portfolio of receivables could include the Group's past experience of collecting payments, an increase in the number of delayed payments in the portfolio past the average credit period, as well as observable changes in national or local economic conditions that correlate with default on receivables.

For financial assets carried at amortized cost, the amount of the impairment loss recognized is the difference between the asset's carrying amount and the present value of estimated future cash flows, discounted at the financial asset's original effective interest rate.

For financial assets measured at amortized cost, if, in a subsequent period, the amount of the impairment loss decreases and the decrease can be related objectively to an event occurring after the impairment was recognized, the previously recognized impairment loss is reversed through profit or loss to the extent that the carrying amount of the investment at the date the impairment is reversed does not exceed what the amortized cost would have been had the impairment not been recognized.

For assets classified as available for sale, it is assessed at the end of each reporting period whether there is objective evidence that a financial asset or a group of financial assets is impaired.

For debt securities, if any such evidence exists the cumulative loss — measured as the difference between the acquisition cost and the current fair value, less any impairment loss on that financial asset previously recognized in profit or loss — is removed from equity and recognized in profit or loss. If, in a subsequent period, the fair value of a debt instrument classified as available for sale increases and the increase can be objectively related to an event occurring after the impairment loss was recognized in profit or loss, the impairment loss is reversed through the consolidated statement of profit or loss.

For equity investments, a significant or prolonged decline in the fair value of the security below its cost is also evidence that the assets are impaired. If any such evidence exists the cumulative loss — measured as the difference between the acquisition cost and the current fair value, less any impairment loss on that financial asset previously recognized in profit or loss — is removed from equity and recognized in profit or loss. Impairment losses recognized in the consolidated statement of profit or loss on equity instruments are not reversed through the consolidated statement of profit or loss.



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The carrying amount of the financial asset is reduced by the impairment loss directly for all financial assets with the exception of trade receivables, where the carrying amount is reduced through the use of an allowance account. When a trade receivable is considered uncollectible, it is written off against the allowance account. Subsequent recoveries of amounts previously written off are credited to profit or loss.

### Derecognition of financial assets

The Group derecognizes a financial asset only when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another party. If the Group neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Group recognizes its retained interest in the asset and an associated liability for amounts it may have to pay. If the Group retains substantially all the risks and rewards of ownership of a transferred financial asset, the Group continues to recognize the financial asset and also recognizes a collateralized borrowing for the proceeds received.

On derecognition of a financial asset in its entirety the difference between the asset's carrying amount and the sum of the consideration received and receivable and the cumulative gain or loss that had been recognized in other comprehensive income and accumulated in equity is recognized in profit or loss.

### Financial liabilities and equity instruments

#### Classification as debt or equity

Debt and equity instruments issued by a group entity are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

#### Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of the group after deducting all of its liabilities. Equity instruments issued by the Group are recognized at the proceeds received, net of direct issue costs.

#### Convertible Bonds

The component parts of the convertible bonds issued by the Group are classified separately as financial liabilities and equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument. Conversion option that will be settled by the exchange of a fixed amount of cash or another financial asset for a fixed number of the Group's own equity instruments is an equity instrument.

At the date of issue, the fair value of the liability component is estimated using the prevailing market interest rate for similar non-convertible instruments. This amount is recorded as a liability on an amortized cost basis using the effective interest method until extinguished upon conversion or at the instrument's maturity date.

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The conversion option classified as equity is determined by deducting the amount of the liability component from the fair value of the compound instrument as a whole. This is recognized and included in equity, net of income tax effects, and is not subsequently remeasured. In addition, the conversion option classified as equity will remain in equity until the conversion option is exercised, in which case, the balance recognized in equity will be transferred to share premium. Where the conversion option remains unexercised at the maturity date of the convertible note, the balance recognized in equity will be transferred to retained earnings. No gain or loss is recognized in profit or loss upon conversion or expiration of the conversion option.

The Group assesses if the embedded derivatives in respect of the early redemption features are deemed to be clearly and closely related to the host debt contract. Embedded derivatives need not be separated if they are regarded as closely related to its host contract. If they are not, they would be separately accounted for.

Transaction costs that relate to the issue of the convertible bonds are allocated to the liability and equity components in proportion to the allocation of the gross proceeds. Transaction costs relating to the equity component are charged directly to equity. Transaction costs relating to the liability component are included in the carrying amount of the liability portion and amortized over the period of the convertible bonds using the effective interest method.

### Financial liabilities

Financial liabilities are classified as either financial liabilities 'at FVTPL' or 'other financial liabilities'.

### Financial liabilities at FVTPL

Financial liabilities are classified as at FVTPL (including foreign currency forward contracts and cross currency swap contracts) when the financial liability is held for trading.

Financial liabilities at FVTPL are stated at fair value, with any gains or losses arising on remeasurement recognized in profit or loss. The net gain or loss recognized in profit or loss incorporates any interest paid on the financial liability and is included in the 'other gains and losses' line item.

### Other financial liabilities

Other financial liabilities (including borrowings, trade and other payables, long-term financial liabilities, short-term and medium-term notes and bonds payable) are subsequently measured at amortized cost using the effective interest method.

The effective interest method is a method of calculating the amortized cost of a financial liability and of allocating interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the financial liability or (where appropriate) shorter period, to the net carrying amount on initial recognition.

### Derecognition of financial liabilities

The Group derecognizes financial liabilities when, and only when, the Group's obligations are discharged, cancelled or they expire. The difference between the carrying amount of the financial liability derecognized and the consideration paid and payable is recognized in profit or loss.





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### Derivative financial instruments and hedging accounting

The Group enters into a variety of derivative financial instruments to manage its exposure to interest rate and foreign exchange rate risks, including foreign exchange forward contracts and cross currency swap contracts. Further details of derivative financial instruments are disclosed in Note 40.

Derivatives are initially recognized at fair value at the date the derivative contracts are entered into and are subsequently remeasured to their fair value at the end of each reporting period. The resulting gain or loss is recognized in profit or loss immediately unless the derivative is designated and effective as a hedging instrument, in which event the timing of the recognition in profit or loss depends on the nature of the hedge relationship.

Any gains or losses arising from changes in fair value of derivatives are taken directly to the statement of profit or loss, except for the effective portion of cash flow hedges of the gain or loss on cash flow hedges.

The effective portion of the gain or loss on the cash flow hedges is recognized directly in other comprehensive income in the hedging reserve, while any ineffective portion is recognized immediately in the statement of profit or loss.

Amounts recognized in other comprehensive income are transferred to the statement of profit or loss when the hedged transaction affects profit or loss, such as when hedged financial income or financial expense is recognized or when a forecast sale occurs. Where the hedged item is the cost of a non-financial asset or nonfinancial liability, the amounts recognized in other comprehensive income are transferred to the initial carrying amount of the non-financial asset or non-financial liability.

If the hedging instrument expires or is sold, terminated or exercised without replacement or rollover (as part of the hedging strategy), or if its designation as a hedge is revoked, or when the hedge no longer meets the criteria for hedge accounting, the amounts previously recognized in other comprehensive income remain in other comprehensive income until the forecast transaction occurs or the foreign currency firm commitment is met.

#### 4. Critical accounting judgments and key sources of estimation uncertainty

##### Critical accounting judgments

In the application of the Group's accounting policies, which are described in Note 3, the Group is required to make judgments, estimates and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimate is revised if the revision affects only that period, or in the period of the revision and future periods if the revision affects both current and future periods.

##### Key sources of estimation uncertainty

The following are the key assumptions concerning the future, and other key sources of estimation uncertainty at the end of the reporting period, that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year.



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### Inventories

Inventories are stated at the lower of cost (weighted average) or net realizable value (NRV), with NRV being the “estimated selling price in the ordinary course of business less the estimated costs of completion and the estimated costs necessary to make the sale”. The Group estimates the recoverability for such finished goods and work-in-progress based primarily upon the latest invoice prices and current market conditions. If the NRV of an inventory item is determined to be below its carrying value, the Group records a write-down to cost of sales for the difference between the carrying cost and NRV.

### Long-lived assets

The Group assesses the impairment of long-lived assets when events or changes in circumstances indicate that the carrying value of asset or cash- generating unit (“CGU”) may not be recoverable. Factors that the Group considers in deciding when to perform an impairment review include, but are not limited to significant under-performance of a business or product line in relation to expectations, significant negative industry or economic trends, and significant changes or planned changes in the use of the assets.

An impairment analysis is performed at the lowest level of identifiable independent cash flows for an asset or CGU. An impairment exists when the carrying value of an asset or cash-generating unit exceeds its recoverable amount, which is the higher of its fair value less costs to sell and its value in use. The fair value less costs to sell calculation is based on available data from binding sales transactions, conducted at arm’s length, for similar assets or observable market prices less incremental costs for disposing of the asset. The value in use calculation is based on a discounted cash flow model.

The Group makes subjective judgments in determining the independent cash flows that can be related to a specific CGU based on its asset usage model and manufacturing capabilities. The Group measures the recoverability of assets that will continue to be used in the Group’s operations by comparing the carrying value of CGU to the Group’s estimate of the related total future discounted cash flows. If a CGU’s carrying value is not recoverable through the related discounted cash flows, the impairment loss is measured by comparing the difference between the CGU’s carrying value and its recoverable amount, based on the best information available, including market prices or discounted cash flow analysis. The recoverable amount is most sensitive to the discount rate used for the discounted cash flow model as well as the expected future cash-inflows and the growth rate and sales margin used for extrapolation purposes.

In order to remain technologically competitive in the semiconductor industry, the Group has entered into technology transfer and technology license arrangements with third parties in an attempt to advance the Group’s process technologies. The payments made for such technology licenses are recorded as an intangible asset or as a deferred cost and amortized on a straight-line basis over the estimated useful life of the asset. The Group routinely reviews the remaining estimated useful lives of these intangible assets and deferred costs. The Group also evaluates these intangible assets and deferred costs for impairment whenever events or changes in circumstances indicate that their carrying amounts may not be recoverable. When the carrying amounts of such assets are determined to exceed their recoverable amounts, the Group will impair such assets and write down their carrying amounts to recoverable amount in the year when such determination was made.

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### Share-based Compensation Expense

The fair value of options and shares issued pursuant to the Group's option plans at the grant date was estimated using the Black-Scholes option pricing model. This model was developed for use in estimating the fair value of traded options that have no vesting restrictions and are fully transferable. In addition, option-pricing models require the input of highly subjective assumptions, including the expected term of the options, the estimated forfeiture rates and the expected stock price volatility. The expected term of options granted represents the period of time that options granted are expected to be outstanding. The Group estimated forfeiture rates using historical data to estimate option exercise and employee termination within the pricing formula. The Group uses projected volatility rates based upon the Group's historical volatility rates. These assumptions are inherently uncertain. Different assumptions and judgments would affect the Group's calculation of the fair value of the underlying ordinary shares for the options granted, and the valuation results and the amount of share-based compensation would also vary accordingly. Further details on share-based compensation are disclosed in Note 39.

### Taxes

Uncertainties exist with respect to the interpretation of complex tax regulations, changes in tax laws, and the amount and timing of future taxable income. Given the wide range of international business relationships and the long-term nature and complexity of existing contractual agreements, differences arising between the actual results and the assumptions made, or future changes to such assumptions, could necessitate future adjustments to tax income and expense already recorded. The Group establishes provisions, based on reasonable estimates, for possible consequences of audits by the tax authorities of the respective countries in which it operates. The amount of such provisions is based on various factors, such as experience of previous tax audits and differing interpretations of tax regulations by the taxable entity and the responsible tax authority. Such differences of interpretation may arise on a wide variety of issues depending on the conditions prevailing in the respective domicile of the Group companies.

Deferred tax assets are recognized for unused tax losses to the extent that it is probable that taxable profit will be available against which the losses can be utilized. Significant management judgment is required to determine the amount of deferred tax assets that can be recognized, based upon the likely timing and the level of future taxable profits together with tax planning strategies.

The realizability of the deferred tax asset mainly depends on whether sufficient profits or taxable temporary differences will be available in the future. In cases where the actual future profits generated are less than expected, a material reversal of deferred tax assets may arise, which would be recognized in profit or loss for the period in which such a reversal takes place.

### Fair value of financial instruments

Some of the Group's assets and liabilities are measured at fair value for financial reporting purposes.

In estimating the fair value of an asset or a liability, the Group uses market-observable data to the extent it is available. Where Level 1 inputs are not available, the Group engages third party qualified valuers to perform the valuation.

The Group uses valuation techniques that include inputs that are not based on observable market data to estimate the fair value of certain types of financial instruments. Notes 40 provide detailed information about the valuation techniques, inputs and key assumptions used in the determination of the fair value of various assets and liabilities.



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## Impairment of trade and other receivable

The Group assesses at the end of each reporting period whether there is any objective evidence that trade and other receivable is impaired. To determine whether there is objective evidence of impairment, the Group considers factors such as the probability of insolvency or significant financial difficulties of the debtor and default or significant delay in payments.

When there is objective evidence of impairment loss, the Group takes into consideration the estimation of future cash flows. The amount of the impairment loss is measured as the difference between the asset's carrying amount and the present value of estimated future cash flows (excluding future credit losses that have not been incurred) discounted at the financial asset's original effective interest rate (that is, the effective interest rate computed at initial recognition). Where the actual future cash flows are less than expected, a material impairment loss may arise. The carrying amount of the Group's trade and other receivable at the end of the reporting period is disclosed in Note 25.

## 5. Segment information

The Group is engaged principally in the computer-aided design, manufacturing and trading of integrated circuits. The Group's chief operating decision makers have been identified as the Co-Chief Executive Officers, who review consolidated results when making decisions about resources allocation and assessing performance of the Group. The Group operates in one segment. The measurement of segment profits is based on profit from operation as presented in the statements of profit or loss and other comprehensive income.

The Group operates in three principal geographical areas — United States, Europe, and Asia Pacific. The Group's operating revenue from customers, based on the location of their headquarters, is detailed below.

	Revenue from external customers		
	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
United States(2)	1,240,906	858,858	776,223
Mainland China and Hong Kong	1,465,553	1,447,427	1,066,558
Eurasia(1)	394,716	607,895	393,634
	3,101,175	2,914,180	2,236,415

(1) Not including Mainland China and Hong Kong

(2) Presenting the revenue to those companies whose headquarters are in the United States, but ultimately selling products to their global customers.

The Group's operating revenue by product and service type is detailed below:

	Revenue from external customers		
	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Sales of wafers	3,038,947	2,803,819	2,134,943
Mask making, testing and others	62,228	110,361	101,472
	3,101,175	2,914,180	2,236,415



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The Group's business is characterized by high fixed costs relating to advanced technology equipment purchases, which result in correspondingly high levels of depreciation expenses. The Group will continue to incur capital expenditures and depreciation expenses as it equips and ramps-up additional fabs and expand its capacity at the existing fabs. The following table summarizes property, plant and equipment of the Group by geographical location.

	Property, plant and equipment		
	Year ended	Year ended	Year ended
	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
United States	45	69	95
Europe(2)	137,778	125,339	5
Asia(1)	117	97	122
Hong Kong	2,618	2,839	3,040
Mainland China(2)	6,382,845	5,559,013	3,900,556
	6,523,403	5,687,357	3,903,818

(1) Not including Mainland China and Hong Kong

(2) Fabrication facilities are owned and operated only in Mainland China and Italy.

## 6. Significant customers

The following table summarizes net revenue or gross accounts receivable for customers which accounted for 5% or more of net revenue and gross accounts receivable:

	Net revenue			Gross accounts receivable			
	Year ended December 31,			December 31,			
	2017	2016	2015	2017	2016	2015	
Customer A	636,662	382,853	366,696	133,281	78,639	75,643	
Customer B	538,102	609,802	324,267	95,575	129,619	50,068	
Customer C	206,635	*	*	28,521	*	*	
Customer A	21	% 13	% 16	% 33	% 16	% 19	%
Customer B	17	% 21	% 15	% 23	% 26	% 13	%
Customer C	7	% *	% *	7	% *	% *	%

\*Less than 5% of net revenue and gross accounts receivable in the year.



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## 7. Other operating income (expense), net

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Gain (loss) on disposal of property, plant and equipment and assets classified as held-for-sale	17,513	(1,846)	28,949
Impairment loss recognized on property, plant and equipment	—	(7,529)	—
Government funding(Note 11.5)	27,444	9,542	2,697
Loss on deconsolidation of subsidiaries	—	—	(57)
Others	—	10	5
	44,957	177	31,594

The gain on disposal of property, plant and equipment and assets classified as held-for-sale for the year ended December 31, 2017 was primarily due to the gain arising from the disposal of equipment of which US\$6.9 million was related to sale and lease back transactions as disclosed in Note 43.

The loss on disposal of property, plant and equipment and assets classified as held-for-sale for the year ended December 31, 2016 was primarily due to the loss arising the disposal of equipment and the gain arising from the sales of the staff living quarters in Beijing to employees.

The gain on disposal of property, plant and equipment and assets classified as held-for-sale for the year ended December 31, 2015 was primarily from the sales of the staff living quarters in Shanghai and Beijing to employees.

## 8. Finance costs

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Interest on:			
Bank and other borrowings	25,543	17,793	11,879
Interest on finance leases	232	62	—
Interest on convertible bonds	15,818	16,352	13,238
Interest on corporate bonds	22,405	22,327	22,253
Interest on medium-term notes	8,185	4,625	—
Interest on short-term notes	1,164	1,509	—
Less: government funding (Note 11.5)	(24,182)	(11,639)	(4,895)
Total interest expense for financial liabilities not classified as at FVTPL	49,165	51,029	42,475
Less: amounts capitalized	(31,144)	(27,992)	(30,257)
	18,021	23,037	12,218

The weighted average effective interest rate on funds borrowed generally is 1.65% per annum (2016: 2.12% per annum and 2015: 3.75% per annum).



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## 9. Other gains or losses, net

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Gain (loss) at fair value			
Cross currency swap contracts(Note 40)	2,150	(14,989)	(1,459)
Derivative financial instrument(1)	1,544	2,721	30,173
Foreign currency forward contracts	2,109	—	172
Financial products sold by banks	1,087	4,651	22,489
Net gain (loss) arising on financial instruments at FVTPL	6,890	(7,617)	51,375
Others(2)	9,609	5,504	4,236
	16,499	(2,113)	55,611

- (1) The derivative financial instrument was a put option with the right of Siltech Semiconductor (Shanghai) Corporation Limited (“SilTech Shanghai”, an indirectly wholly-owned subsidiary of the Company) to sell Suzhou Changjiang Electric Xinke Investment Co., Ltd. (“Changjiang Xinke”) to Jiangsu Changjiang Electronics Technology Co., Ltd. (“JCET”), pursuant to an investment exit agreement entered in December 2014 and exercised in June 2017.
- (2) Others included a gain of US\$18.5 million arising from the disposal agreement and the subscription agreement (Note 19) entered by SilTech Shanghai and JCET on April 27, 2016, and a loss of potential cash compensation accrued at US \$12.5 million that may be incurred depending on the profit of Changjiang Xinke during the three years of 2017, 2018 and 2019. The potential cash compensation was deemed as the terms of the supplemental agreement entered by SilTech Shanghai and JCET on December 9, 2016. Such gain and loss was recognized in 2017.

## 10. Income taxes

## Income tax expense (benefit)

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Current tax — Enterprise Income Tax	(469)	1,306	(47)
Deferred tax	2,136	(8,589)	6,665
Current tax — Land Appreciation Tax	179	731	1,923
	1,846	(6,552)	8,541

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The income tax expense (benefit) for the year can be reconciled to the accounting profit as follows:

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Profit before tax	128,269	309,882	230,864
Income tax expense calculated at 15% (2016: 15% and 2015: 15%)	19,240	46,482	34,630
Effect of tax holiday	(50,258)	(41,484)	(49,864)
Additional deduction for research and development expenditures	(25,260)	(13,107)	(4,619)
Tax losses for which no deferred tax assets were recognized	70,341	39,777	25,732
Reversal (utilization) of previously unrecognized tax losses of temporary differences(1)	5,687	(43,440)	(3,687)
Effect of different tax rates of subsidiaries operating in other jurisdictions	(18,082)	4,517	4,226
Others	26	82	488
Land Appreciation Tax (after tax)	152	621	1,635
	1,846	(6,552)	8,541

The tax rate used for the 2017, 2016 and 2015 reconciliation above is the corporate tax rate of 15% payable by most of the Group's entities in Mainland China under tax law in that jurisdiction.

(1) In 2017, the Group reversed US\$6.0 million previously recognized temporary differences, which will not be utilized and in 2016, the group utilized US\$43.4 million previously unrecognized tax losses.

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## Current tax liabilities

	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Income tax payable	270	460	355

## Deferred tax balances

The following is the analysis of deferred tax assets (liabilities) presented in the consolidated statement of financial position:

	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Deferred tax assets			
Property, plant and equipment	41,271	45,981	44,523
Intangible Assets	1,844	—	—
Others	1,760	—	419
	44,875	45,981	44,942
Deferred tax liabilities			
Capitalized interest	—	—	(3)
Property, plant and equipment	(16,412)	(15,382)	(7,290)
	(16,412)	(15,382)	(7,293)
	28,463	30,599	37,649

2017.12.31

	Opening balance USD'000	Recognize in profit or loss USD'000	Closing balance USD'000
Deferred tax assets/(liabilities) in relation to:			
Property, plant and equipment	30,599	(5,740)	24,859
Capitalized interest	—	1,844	1,844
Others	—	1,760	1,760
	30,599	(2,136)	28,463

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2016.12.31

	Opening balance USD'000	Business Combination USD'000	Recognize in profit or loss USD'000	Closing balance USD'000
Deferred tax assets/(liabilities) in relation to:				
Property, plant and equipment	37,233	(15,639)	9,005	30,599
Capitalized interest	(3)	—	3	—
Others	419	—	(419)	—
	37,649	(15,639)	8,589	30,599

2015.12.31

	Opening balance USD'000	Recognize in profit or loss USD'000	Closing balance USD'000
Deferred tax assets/(liabilities) in relation to:			
Property, plant and equipment	43,859	(6,626)	37,233
Capitalized interest	(69)	66	(3)
Others	524	(105)	419
	44,314	(6,665)	37,649

Under the Law of the People's Republic of China (the "PRC") on Enterprise Income Tax, or the EIT Law, the profits of a foreign invested enterprise arising in 2008 and beyond that distributed to its immediate holding company who is a non-PRC tax resident will be subject to a withholding tax rate of 10%. A lower withholding tax rate may be applied if there is a favorable tax treaty between mainland China and the jurisdiction of the foreign holding company. For example, holding companies in Hong Kong that are also tax residents in Hong Kong (which should have commercial substance and proceed the formal treaty benefit application with in-charge tax bureau) are eligible for a 5% withholding tax on dividends under the Tax Memorandum between China and the Hong Kong Special Administrative Region.

The Company is incorporated in the Cayman Islands, where it is not currently subject to taxation.

The EIT law (became effective on January 1, 2008) applies a uniform 25% enterprise income tax rate to both tax resident enterprise and non-tax resident enterprise, except where a special preferential rate applies. In addition, according to the law of Italy on enterprise income tax, LFoundry income tax ("IRES") rate is 24%.

Pursuant to Caishui Circular [2008] No. 1 ("Circular No. 1") promulgated on February 22, 2008, integrated circuit production enterprises whose total investment exceeds RMB8,000 million (approximately US\$1,095 million) or

whose integrated circuits have a line width of less than 0.25 micron are entitled to a preferential tax rate of 15%. Enterprises with an operation period of more than 15 years are entitled to a full exemption from income tax for five years starting from the first profitable year after utilizing all prior years' tax losses and 50% reduction of the tax for the following five years. Pursuant to Caishui Circular [2009] No. 69 ("Circular No. 69"), the 50% reduction should be based on the statutory tax rate of 25%.

On January 28, 2011, the State Council of China issued Guofa [2011] No. 4 ("Circular No. 4"), the Notice on Certain Policies to Further Encourage the Development of the Software and Integrated

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Circuit Industries which reinstates the EIT incentives stipulated by Circular No. 1 for the software and integrated circuit enterprises.

On April 20, 2012, State Tax Bureau issued CaiShui [2012] No. 27 (“Circular No. 27”), stipulating the income tax policies for the development of integrated circuit industry. Circular No. 1 was partially abolished by Circular No. 27 and the preferential taxation policy in Circular No. 1 was replaced by Circular No. 27.

On July 25, 2013, State Tax Bureau issued [2013] No. 43 (“Circular No. 43”), clarifying that the accreditation and preferential tax policy of integrated circuit enterprise established before December 31, 2010, is applied pursuant to Circular No. 1.

On May 4, 2016, State Tax Bureau, Ministry of Finance and other joint ministries issued Caishui [2016] No. 49 (“Circular No. 49”), which highlights the implementation of the record-filing system, clarification on certain criteria for tax incentive entitlement and establishment of a post-record filing examination mechanism and enhancement of post-administration.

The detailed tax status of SMIC’s principal PRC entities with tax holidays is elaborated as follows:

### 1) Semiconductor Manufacturing International (Shanghai) Corporation (“SMIS” or “SMIC Shanghai”)

Pursuant to the relevant tax regulations, SMIS is qualified as an integrated circuit enterprise and enjoyed a 10-year tax holiday (five year full exemption followed by five year half reduction) beginning from 2004 after utilizing all prior years’ tax losses. The income tax rate for SMIS for was 15% in 2017. (2016: 15% and 2015: 15%).

### 2) Semiconductor Manufacturing International (Tianjin) Corporation (“SMIT” or “SMIC Tianjin”)

In accordance with Circular No. 43 and Circular No. 1, SMIT is qualified as an integrated circuit enterprise and enjoying a 10-year tax holiday (five year full exemption followed by five year half reduction) beginning from 2013 after utilizing all prior years’ tax losses. The income tax rate for SMIT was 0% from 2013 to 2017 and 12.5% from 2018 to 2022.

### 3) Semiconductor Manufacturing International (Beijing) Corporation (“SMIB” or “SMIC Beijing”)

In accordance with Circular No. 43 and Circular No. 1, SMIB is qualified as an integrated circuit enterprise and enjoying a 10-year tax holiday (five year full exemption followed by five year half reduction) beginning from 2015 after utilizing all prior years’ tax losses. The income tax rate for SMIB was 0% from 2015 to 2019 and 12.5% from 2020 to 2024.

### 4) Semiconductor Manufacturing International (Shenzhen) Corporation (“SMIC Shenzhen”), Semiconductor Manufacturing North China (Beijing) Corporation (“SMNC”) and SJ Semiconductor (Jiangyin) Corporation (“SJ Jiangyin”)

In accordance with Circular No. 43, Circular No. 1 and Circular No. 27, SMIC Shenzhen, SMNC and SJ Jiangyin are entitled to the preferential tax rate of 15% and 10-year tax holiday (five year full exemption followed by five year half reduction) subsequent to its first profit-making year after utilizing all prior tax losses on or before December 31, 2017. SMIC Shenzhen, SMNC and SJ Jiangyin were in accumulative loss positions as of December 31, 2017 and the tax holiday has not begun to take effect.

### 5) Other PRC entities





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All the other PRC entities of SMIC are subject to income tax rate of 25%.

## Unused tax losses

At the end of the reporting period, no deferred tax asset was recognized in respect of tax losses of US\$235.1 million (December 31, 2016: US\$444.0 million and December 31, 2015: US\$577.3 million) due to the unpredictability of future profit streams, of which US\$13.3 million, US\$26.8 million, US\$55.8 million, US\$44.4 million and US\$94.8 million will expire in 2018, 2019, 2020, 2021 and 2022, respectively.

## 11. Profit for the year

Profit for the year has been arrived at after charging (crediting)

## 11.1 Impairment losses (reversal of impairment losses) on trade receivables

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Allowance on doubtful trade receivables (Note 25)	301	201	528
Reversal of allowance on doubtful trade receivables (Note 25)	(438)	(1,603)	(541)
Reversal of allowance on doubtful other receivables	—	(8,809)	—
	(137)	(10,211)	(13)

In 2017, the Group reversed a portion of the allowance on doubtful accounts due to collection of part of the trade and other receivables from customers.

## 11.2 Depreciation and amortization expense

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Depreciation of property, plant and equipment	906,034	673,161	473,008
Amortization of intangible assets and land use right	65,348	56,705	50,541
	971,382	729,866	523,549

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## 11.3 Employee benefits expense

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Wages, salaries and social security contributions	499,238	378,709	299,267
Bonus	57,289	123,313	107,859
Paid annual leave	—	—	66
Non-monetary benefits	47,204	31,686	21,414
Equity-settled share-based payments (Note 39)	18,214	14,210	18,329
	621,945	547,918	446,935

## 11.4 Royalties expense

	Year Ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Royalties expense	37,466	37,023	36,262

## 11.5 Government funding

## Government funding under specific R&amp;D projects

The Group received government funding (including those with primary condition that the Group should purchase, construct or otherwise acquire non-current assets) of US\$178.3 million, US\$181.1 million and US\$40.2 million and recognized US\$82.2 million, US\$52.5 million and US\$34.3 million as reductions of certain R&D expenses in 2017, 2016 and 2015 for several specific R&D projects respectively. The government funding is recorded as a liability upon receipt and recognized as reduction of R&D expenses until the milestones specified in the terms of the funding have been reached.

## Government funding for specific intended use

The Group received government funding of US\$51.6 million, US\$21.1 million and US\$7.6 million in 2017, 2016 and 2015, respectively. The Group recognized US\$24.2 million, US\$11.6 million and US\$4.9 million as reduction of interest expense (Note 8) and recognized US\$27.4 million, US\$9.5 million and US\$2.7 million as other operating income (Note 7) in 2017, 2016 and 2015, respectively. The government funding is recorded as a liability upon receipt and recognized as reduction of interest expense or as other operating income until the requirements (if any) specified in the terms of the funding have been reached.

## 11.6 Auditors' remuneration

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
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Audit services	1,413	1,529	1,322
Non-audit services	85	587	65
.	1,498	2,116	1,387

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## 12. Directors' remuneration

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Salaries	4,490	2,367	2,384
Equity-settled share-based payments	8,158	2,214	1,550
	12,648	4,581	3,934

The equity-settled share-based payments granted to directors include both stock options and restricted share units ("RSUs").

During the year ended December 31, 2017, 5,726,477 options to purchase ordinary shares of the Company were granted to the directors, 1,949,229 stock options were exercised and no stock options were expired. During the year ended December 31, 2016, 1,068,955\* stock options were granted to the directors, 1,800,000\* stock options were exercised and 732,820\* stock options were expired. During the year ended December 31, 2015, 3,091,724\* stock options were granted to the directors, 1,835,343\* stock options were exercised and 111,781\* stock options were expired.

During the year ended December 31, 2017, 5,726,477 RSUs to purchase ordinary shares of the Company were granted to the directors to the directors, 3,774,432 RSUs automatically vested and no RSUs were forfeited. During the year ended December 31, 2016, 1,068,955\* RSUs were granted to the directors, 1,411,851\* RSUs automatically vested and no RSUs were forfeited. During the year ended December 31, 2015, 1,080,499\* RSUs were granted to the directors 1,237,783\* RSUs automatically vested and no RSUs were forfeited.

In 2017, 2016 and 2015, no emoluments were paid by the Group to any of the directors as an inducement to join or upon joining the Group or as compensation for loss of office. Except for the waiver of all options previously granted to Ren Kai subject to his request on February 18, 2016, no directors waived any emoluments in 2017, 2016 and 2015.

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\* The number of share option and RSUs for the prior years have been adjusted to reflect the impact of the share consolidation, on the basis that every ten ordinary shares and preferred shares of US\$0.0004 each consolidated into one ordinary share and preferred share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016.

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## (a) Independent non-executive directors

The fees paid or payable to independent non-executive directors of the Company during the year were as follows:

	Salaries and wages USD'000	Employee settle share- based payment USD'000	Total remuneration USD'000
2017			
Lip-Bu Tan	91	128	219
William Tudor Brown	89	8	97
Carmen I-Hua Chang	70	40	110
Shang-Yi Chiang	47	250	297
Jason Jingsheng Cong	35	217	252
	332	643	975

	Salaries and wages USD'000	Employee settle share- based payment USD'000	Total remuneration USD'000
2016			
Lip-Bu Tan	100	156	256
William Tudor Brown	85	24	109
Sean Maloney	72	23	95
Carmen I-Hua Chang	68	78	146
Shang-Yi Chiang	—	—	—
	325	281	606

	Salaries and wages USD'000	Employee settle share- based payment USD'000	Total remuneration USD'000
2015			
Lip-Bu Tan	70	—	70
Frank Meng	28	6	34
William Tudor Brown	47	47	94
Sean Maloney	50	46	96
Carmen I-Hua Chang	42	149	191
	237	248	485

There were no other emoluments payable to the independent non-executive directors during the year (2016: Nil and 2015: Nil.)



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## (b) Executive directors and non-executive director

	Salaries and wages USD'000	Employee settle share- based payment USD'000	Total remuneration USD'000
2017			
Executive directors:			
Zhou Zixue	765	311	1,076
Zhao Haijun*	726	1,514	2,240
Liang Mong Song*	65	—	65
Gao Yonggang	634	24	658
	2,190	1,849	4,039
Non-executive director:			
Tzu-Yin Chiu**	1,783	5,321	7,104
Chen Shanzhi	75	128	203
Zhou Jie	—	—	—
Ren Kai	70	—	70
Lu Jun	—	—	—
Tong Guohua	40	217	257
Li Yonghua (Alternate to Chen Shanzhi)***	—	—	—
	1,968	5,666	7,634

	Salaries and wages USD'000	Employee settle share- based payment USD'000	Total remuneration USD'000
2016			
Executive directors:			
Zhou Zixue	527	655	1,182
Tzu-Yin Chiu**	920	1,038	1,958
Gao Yonggang	413	82	495
	1,860	1,775	3,635
Non-executive director:			
Chen Shanzhi	80	136	216
Zhou Jie	—	—	—
Ren Kai	63	22	85
Lu Jun	39	—	39
Li Yonghua (Alternate to Chen Shanzhi)***	—	—	—
	182	158	340



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	Salaries and wages USD'000	Employee settle share- based payment USD'000	Total remuneration USD'000
2015			
Executive directors:			
Zhou Zixue	225	873	1,098
Zhang Wenyi	578	32	610
Tzu-Yin Chiu**	918	130	1,048
Gao Yonggang	376	201	577
	2,097	1,236	3,333
Non-executive director:			
Chen Shanzhi	50	—	50
Zhou Jie	—	—	—
Li Yonghua (Alternate to Chen Shanzhi)***	—	—	—
Ren Kai	—	66	66
	50	66	116

\* Zhao HaiJun and Liang Mong Song are also the Co-Chief Executive Officers of the Company.

\*\* Tzu-Yin Chiu resigned as Chief Executive Officer on May 10, 2017 and remains as non-executive director.

\*\*\* Li Yonghua resigned as alternate director of Chen Shanzhi with effect from February 24, 2017.

In 2017, Lu Jun waived all salaries and wages since he was appointed as non-executive director of SMIC. There was no other arrangement under which a director waived any remuneration in 2017.

### 13. Five highest paid employees

The five highest paid individuals during the year included three (2016: two and 2015: two) directors, details of whose remuneration are set out in Note 12 above. Details of the remuneration of the remaining two (2016: three and 2015: three) non-directors, highest paid individuals for the year are as follows:

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Salaries and other benefits	630	692	962
Bonus	746	611	636
Stock option benefits	338	412	552
	1,714	1,715	2,150

The bonus is determined on the basis of the basic salary and the performance of the Group and the individual.

In 2017, 2016 and 2015, no emoluments were paid by the Group to any of the five highest paid individuals as an inducement to join or upon joining the Group or as compensation for loss of office.



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The number of non-director, highest paid individuals whose remuneration fell within the following bands is as follows:

	Number of employees		
	2017	2016	2015
HK\$4,000,001 (US\$511,801) to HK\$4,500,000 (US\$575,775)	—	2	—
HK\$4,500,001 (US\$575,776) to HK\$5,000,000 (US\$639,750)	—	—	1
HK\$5,000,001 (US\$639,751) to HK\$5,500,000 (US\$703,725)	—	1	—
HK\$5,500,001 (US\$703,726) to HK\$6,000,000 (US\$767,700)	—	—	1
HK\$6,000,001 (US\$767,701) to HK\$6,500,000 (US\$831,675)	—	—	1
HK\$6,500,001 (US\$831,676) to HK\$7,000,000 (US\$895,650)	2	—	—
	2	3	3

## 14. Earnings per share

	Year ended 12/31/17 USD	Year ended * 12/31/16 USD	Year ended * 12/31/15 USD
Basic earnings per share	\$0.04	\$0.09	\$0.07
Diluted earnings per share	\$0.04	\$0.08	\$0.06

## Basic earnings per share

The earnings and weighted average number of ordinary shares used in the calculation of basic earnings per share are as follows:

	Year ended 12/31/17 USD'000	Year ended * 12/31/16 USD'000	Year ended * 12/31/15 USD'000
Profit for the year attributable to owners of the Company	179,679	376,630	253,411
Earnings used in the calculation of basic earnings per share	179,679	376,630	253,411
Weighted average number of ordinary shares for the purposes of basic earnings per share	4,628,850,686	4,221,765,945	3,896,041,667

\*The basic and diluted earnings per share and weighted average number of ordinary shares for the prior years have been adjusted to reflect the impact of the Share Consolidation, on the basis that every ten ordinary shares of US\$0.0004 each consolidated into one ordinary share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016.



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## Diluted earnings per share

The earnings used in the calculation of diluted earnings per share are as follows:

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Earnings used in the calculation of basic earnings per share	179,679	376,630	253,411
Interest expense from convertible bonds	905	16,352	13,238
Earnings used in the calculation of diluted earnings per share	180,584	392,982	266,649

The weighted average number of ordinary shares used in the calculation of basic earnings per share reconciles to the weighted average number of ordinary shares used in the calculation of diluted earnings per share as follows:

	Year ended 12/31/17	Year ended * 12/31/16	Year ended * 12/31/15
Weighted average number of ordinary shares used in the calculation of basic earnings per share	4,628,850,686	4,221,765,945	3,896,041,667
Employee option and restricted share units	44,496,788	36,240,710	36,944,830
Convertible bonds	38,241,356	575,099,614	393,257,100
Perpetual subordinated convertible securities	1,848,513	—	—
Weighted average number of ordinary shares used in the calculation of diluted earnings per share	4,713,437,343	4,833,106,269	4,326,243,597

During the year ended December 31, 2017, the Group had 5,214,138 weighted average outstanding employee stock options which were excluded from the computation of diluted earnings per share due to the exercise price higher than the average market price of the ordinary shares and 377,137,509 potential shares upon the conversion of convertible bonds excluded from the computation of diluted earnings per share due to anti-dilutive effect.

During the year ended December 31, 2016, the Group had 19,757,421\* weighted average outstanding employee stock options which were excluded from the computation of diluted earnings per share because the exercise price was greater than the average market price of the common shares.

During the year ended December 31, 2015, the Group had 40,367,017\* weighted average outstanding employee stock options which were excluded from the computation of diluted earnings per share because the exercise price was greater than the average market price of the common shares.

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\*Weighted average number of ordinary shares and options for the prior years have been adjusted to reflect the impact of the Share Consolidation, on the basis that every ten ordinary shares of US\$0.0004 each consolidated into one ordinary share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016.

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## 15. Dividend

The Board did not recommend the payment of any dividend for the year ended December 31, 2017 (December 31, 2016: Nil and December 31, 2015: Nil).

## 16. Property, plant and equipment

	Land USD'000	Buildings USD'000	Plant and equipment USD'000	Office equipment USD'000	Construction in progress (CIP) USD'000	Total USD'000
Cost						
Balance at						
December 31, 2014	—	325,344	8,472,186	120,072	1,088,080	10,005,682
Transfer from (out) CIP	—	263,476	985,820	14,966	(1,264,262)	—
Addition	—	—	—	—	1,498,201	1,498,201
Disposals	—	—	(53,550)	(180)	(654)	(54,384)
Reclassified as held-for-sale	—	—	—	—	(114,534)	(114,534)
Balance at						
December 31, 2015	—	588,820	9,404,456	134,858	1,206,831	11,334,965
Business combination	2,485	42,612	63,519	290	4,213	113,119
Transfer from (out) CIP	—	93,535	2,338,662	34,546	(2,466,743)	—
Addition	—	—	—	—	2,597,970	2,597,970
Disposals	—	—	(283,420)	(2,136)	(9,257)	(294,813)
Balance at						
December 31, 2016	2,485	724,967	11,523,217	167,558	1,333,014	13,751,241
Transfer from (out) CIP	—	174,143	1,696,092	31,355	(1,901,590)	—
Addition	—	—	—	—	2,425,697	2,425,697
Disposals	—	(28,543)	(767,210)	(3,588)	(5,518)	(804,859)
Balance at						
December 31, 2017	2,485	870,567	12,452,099	195,325	1,851,603	15,372,079

	Land USD'000	Buildings USD'000	Plant and equipment USD'000	Office equipment USD'000	Construction in progress (CIP) USD'000	Total USD'000
Accumulated depreciation and impairment						
Balance at						
December 31, 2014	—	121,680	6,758,071	103,514	27,331	7,010,596
Disposal	—	—	(51,840)	(180)	(437)	(52,457)
Depreciation expense	—	13,858	451,027	8,123	—	473,008
Balance at						
December 31, 2015	—	135,538	7,157,258	111,457	26,894	7,431,147
Disposal	—	(289)	(33,917)	(2,136)	(11,611)	(47,953)

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Depreciation expense	—	18,133	639,986	15,042	—	673,161
Impairment loss	—	—	—	—	7,529	7,529
Balance at						
December 31, 2016	—	153,382	7,763,327	124,363	22,812	8,063,884
Disposal	—	(5,819)	(108,370)	(1,822)	(5,231)	(121,242)
Depreciation expense	—	41,243	839,351	25,440	—	906,034
Balance at						
December 31, 2017	—	188,806	8,494,308	147,981	17,581	8,848,676

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	Land USD'000	Buildings USD'000	Plant and equipment USD'000	Office equipment USD'000	Construction in progress (CIP) USD'000	Total USD'000
Balance at December 31, 2015	—	453,282	2,247,198	23,401	1,179,937	3,903,818
Balance at December 31, 2016	2,485	571,585	3,759,890	43,195	1,310,202	5,687,357
Balance at December 31, 2017	2,485	681,761	3,957,791	47,344	1,834,022	6,523,403

## Construction in progress

The construction in progress balance of approximately US\$1,834.0 million as of December 31, 2017, primarily consisted of US\$753.0 million of the manufacturing equipment acquired to further expand the production capacity at two 300mm fabs in Beijing, US\$186.1 million of the manufacturing equipment acquired to further expand the production capacity at the 300mm fab and the investment of a new Shanghai project, US\$601.4 million was for our new 300mm fab in Shenzhen, US\$125.1 million was for expand the production capacity at the 200mm fab in Tianjin and the investment of a new Tianjin project, US\$101.8 million of machinery and equipment acquired to more research and development activities at the subsidiary for the new technology research and development in Shanghai. In addition, US\$66.6 million was related to various ongoing capital expenditures projects of other SMIC subsidiaries, which are expected to be completed by the end of 2018.

## Impairment losses recognized in the year

In 2017, the Group didn't recorded (2016: US\$7.5 million and 2015: nil) impairment loss of equipment. The whole amount of impairment loss in 2016 was recognized as other operating expense in profit or loss.

## Assets pledged as security

Property, plant and equipment with carrying amount of approximately US\$362.3 million (2016: approximately US\$631.4 million and 2015: approximately US\$323.9 million) have been pledged to secure borrowings of the Group under a mortgage (Note 31). The Group is not allowed to pledge these assets as security for other borrowings or to sell them to other entities.

## Finance lease

The net carrying amount of the Group's fixed assets held under finance leases included in the total amounts of facility machinery and equipment at December 31, 2017 was US\$5.5 million (December 31, 2016: US\$7.0 million and December 31, 2015: nil).



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## 17. Intangible assets

	Goodwill USD'000	Other intangible assets USD'000	Total USD'000
Cost			
Balance at December 31, 2014	—	370,721	370,721
Additions	—	65,269	65,269
Expired and disposal	—	(44,813)	(44,813)
Balance at December 31, 2015	—	391,177	391,177
Business combination	3,933	8,088	12,021
Additions	—	67,936	67,936
Expired and disposal	—	(21,164)	(21,164)
Balance at December 31, 2016	3,933	446,037	449,970
Additions	—	34,461	34,461
Balance at December 31, 2017	3,933	480,498	484,431
Accumulated amortization and impairment			
Balance at December 31, 2014	—	162,899	162,899
Amortization expense for the year	—	48,812	48,812
Expired and disposal	—	(44,813)	(44,813)
Balance at December 31, 2015	—	166,898	166,898
Amortization expense for the year	—	55,080	55,080
Expired and disposal	—	(20,589)	(20,589)
Balance at December 31, 2016	—	201,389	201,389
Amortization expense for the year	—	63,098	63,098
Balance at December 31, 2017	—	264,487	264,487
Balance at December 31, 2015	—	224,279	224,279
Balance at December 31, 2016	3,933	244,648	248,581
Balance at December 31, 2017	3,933	216,011	219,944

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## 18. Subsidiaries

Details of the Company's subsidiaries at the end of the reporting period are as follows:

Name of company	Place of establishment and operation	Class of shares held	Paid up registered capital	Proportion of ownership interest held by the Company	Proportion of voting power held by the Company	Principal activities
er Way Enterprises Limited ("Better")#	Samoa	Ordinary	USD 1,000,000	Directly 100 %	100 %	Provision of marketing related activities
iconductor Manufacturing International Corporation ("SMIS" SMIC Shanghai)#	People's Republic of China -the "PRC"	Ordinary	USD 1,740,000,000	Indirectly 100 %	100 %	Manufacturing and trading semiconductor products Provision of marketing related activities
C, Americas Semiconductor Manufacturing International Corporation ("SMIB" SMIC Beijing")#	United States of America	Ordinary	USD 500,000	Directly 100 %	100 %	Provision of marketing related activities
C Japan	Japan	Ordinary	JPY 10,000,000	Directly 100 %	100 %	Manufacturing and trading semiconductor products Provision of marketing related activities
C Europe	Italy	Ordinary	EUR 100,000	Directly 100 %	100 %	Provision of marketing related activities
iconductor Manufacturing International (Solar) Corporation	Cayman Islands	Ordinary	USD 11,000	Directly 100 %	100 %	Investment holding Provision of marketing related activities
C Commercial Shanghai Limited	PRC	Ordinary	USD 373,000,000	Directly 100 %	100 %	Provision of marketing related activities
iconductor Manufacturing	PRC	Ordinary	USD 770,000,000	Indirectly 100 %	100 %	Manufacturing and trading

International Corporation (“SMIT” (“SMIC Tianjin”)#										semiconductor products
Development Corporation (“SMICD”)#	PRC	Ordinary	USD	5,000,000	Directly	100	%	100	%	Construction operation, and management of SMICD’s headquarters, schools, and supermarkets
International Corporation (“SMIC I”)#	British Virgin Islands	Ordinary	USD	10	Directly	100	%	100	%	Provision of marketing related activities
Investment Holdings Limited	British Virgin Islands	Ordinary	USD	10	Directly	100	%	100	%	Investment holding
SMIC Shanghai Corporation	Cayman Islands	Ordinary	USD	50,000	Directly	100	%	100	%	Investment holding
SMIC Beijing Corporation	Cayman Islands	Ordinary	USD	50,000	Directly	100	%	100	%	Investment holding
SMIC Tianjin Corporation	Cayman Islands	Ordinary	USD	50,000	Directly	100	%	100	%	Investment holding
SMIC Tech Corporation	Cayman Islands	Ordinary	USD	10,000	Directly	100	%	100	%	Investment holding
SMIC Shenzhen Corporation	Cayman Islands	Ordinary	USD	50,000	Directly	100	%	100	%	Investment holding
SMIC New Technology Research & Development Corporation	PRC	Ordinary	USD	199,000,000	Indirectly	94.874	%	94.874	%	Research and development activities
SMIC Holdings Corporation	PRC	Ordinary	USD	50,000,000	Directly	100	%	100	%	investment holding
SMIC Semiconductor Corporation	Cayman Islands	Ordinary and	USD	5,668	Directly	56.045	%	56.045	%	Investment holding

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		preferred								
C Energy Technology (Shanghai) Corporation (“Energy Science”)	PRC	Ordinary	USD	10,400,000	Indirectly	100	%	100	%	Manufacturing and trading solar cell related semiconductor products investment holding
Significant Tower Limited	British Virgin Islands	Ordinary	USD	50,000	Indirectly	100	%	100	%	investment holding
C Hong Kong International Company Limited	Hong Kong	Ordinary	HKD	1	Indirectly	100	%	100	%	investment holding
C Beijing ( ) Company Limited	Hong Kong	Ordinary	HKD	1	Indirectly	100	%	100	%	Investment holding
C Tianjin ( ) Company Limited	Hong Kong	Ordinary	HKD	1	Indirectly	100	%	100	%	Investment holding
C Solar Cell ( ) Company Limited	Hong Kong	Ordinary	HKD	1	Indirectly	100	%	100	%	Investment holding
C Shenzhen ( ) Company Limited	Hong Kong	Ordinary	HKD	1	Indirectly	100	%	100	%	Investment holding
ech Semiconductor (Hong Kong) Corporation Limited	Hong Kong	Ordinary	HKD	1,000	Indirectly	100	%	100	%	Investment holding
Semiconductor Manufacturing International (Shenzhen) Corporation (“SMIZ” SMIC Shenzhen)	PRC	Ordinary	USD	127,000,000	Indirectly	100	%	100	%	Manufacturing and trading semiconductor products
Semiconductor (Shanghai) Corporation Limited (“SilTech Shanghai”)	PRC	Ordinary	USD	12,000,000	Indirectly	100	%	100	%	Manufacturing and trading semiconductor products
Semiconductor Manufacturing (China) ( ) Corporation (“MNC”)	PRC	Ordinary	USD	3,000,000,000	Directly and indirectly	51	%	51	%	Manufacturing and trading semiconductor products
Ma IC Capital Ltd	PRC	Ordinary	RMB	987,000,000	Indirectly	100	%	100	%	Investment holding
	PRC	Ordinary	RMB	50,000,000	Indirectly	99	%	99	%	

Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	Hong Kong	Ordinary	HKD	1,000	Indirectly	56.045 %	56.045	%	Investment holding
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	PRC	Ordinary	USD	259,500,000	Indirectly	56.045 %	56.045	%	Investment holding Bumping and circuit prototyping activities
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	Italy	Ordinary	EUR	2,000,000	Indirectly	70 %	70	%	Manufacturing and trading semiconductor products
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	PRC	Ordinary	RMB	255,000,000	Indirectly	53.725 %	53.725	%	Manufacturing and trading semiconductor products
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	PRC	Ordinary	USD	200,475,706	Indirectly	100 %	100	%	Manufacturing and trading semiconductor products
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	United States of America	Ordinary	USD	500,000	Indirectly	56.045 %	56.045	%	Provision of marketing related activities
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	Bulgaria	Ordinary	BGN	1,800,000	Indirectly	100 %	100	%	Designing activities
Shanghai Hexin Investment Management Limited Partnership Semiconductor (S) Limited Semiconductor (S) Corporation (“SJ”)#	PRC	Ordinary		—	Indirectly	100 %	100	%	Designing activities

#Abbreviation for identification purposes.

On August 10, 2017, the Company, SMIC Beijing, SMIC Holdings Corporation, China Integrated Circuit Industry Investment Fund Co., Ltd., Beijing Semiconductor Manufacturing and Equipment Equity Investment Centre (Limited Partnership), Beijing Industrial Development Investment Management Co., Ltd., Zhongguancun Development Group and Beijing E-Town International Investment & Development Co., Ltd. agreed to amend the previous joint venture agreement through the amended joint venture agreement, pursuant to which: (i) the Company, SMIC Beijing and SMIC Holdings Corporation have agreed to make further cash contribution of US\$1,224 million into the registered capital of SMNC. The Company’s aggregate shareholding in SMNC will remain at 51%; (ii) China Integrated Circuit Industry Investment Fund Co., Ltd., (the “China IC Fund”) has agreed to make further cash contribution of US\$900.0 million into the registered capital of the Joint Venture Company. Its shareholding in the Joint Venture Company will increase from 26.5% to 32%; and (iii) E-Town Capital has agreed to make cash contribution of US\$276 million into the registered capital of the Joint Venture Company representing 5.75% of the enlarged registered capital of the Joint Venture Company. The capital contribution is not completed as of the date of this annual report.



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On June 24, 2016, the Company, LFoundry Europe GmbH (“LFoundry Europe”) and Marsica Innovation S.p.A (“Marsica”) entered into a sale and purchase agreement pursuant to which LFoundry Europe and Marsica agreed to sell and the Company agreed to purchase 70% of the corporate capital of LFoundry for an aggregate cash consideration of EUR49.0 million (approximately US\$54.4 million), including a goodwill amounted to US\$3.9 million. The goodwill attributable to the workforce and the high profitability of the acquired business will not be deductible for tax purposes. The acquisition was completed on July 29, 2016.

Details of non-wholly owned subsidiaries that have material non-controlling interests (“NCI”)

The table below shows details of a non-wholly owned subsidiary of the Company that have material non-controlling interests:

Place of establishment and operation	Proportion of ownership interests and voting rights held by non-controlling interests			Profit (loss) allocated to non-controlling interests			Accumulated non-controlling interests	
	12/31/17	12/31/16	12/31/15	12/31/17 USD’000	12/31/16 USD’000	12/31/15 USD’000	12/31/17 USD’000	12/31/16 USD’000
Beijing, PRC	49.0	% 49.0	% 45	% (39,113)	(55,868)	(25,596)	1,324,590	1,069,703
Cayman Islands	44.0	% 44.0	% 44.7	% (4,896) (44,009)	(3,545) (59,413)	(5,077) (30,673)	124,659 1,449,249	136,458 1,206,161

SMNC shared part of the Group’s advanced technology R&D expenses in 2017 and 2016, and had start-up cost in 2015, which also caused the change in loss of year attributable to non-controlling interests.

According to the joint venture agreements entered into by the Group and the NCI of SMNC, additional capital injection into SMNC was completed in 2017, 2016 and 2015. The additional capital injection from NCI amounted to US\$294.0 million in 2017, US\$754.1 million in 2016 and US\$61.2 million in 2015 respectively.

According to the joint venture agreements entered into by the Company and the NCI of SJ Semiconductor Corporation, additional capital injection into SJ Semiconductor Corporation was completed in 2016, 2015 and 2014. The additional capital injection from NCI amounted to US\$60.0 million in 2016 and US\$60.0 million in 2015 respectively.

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Summarized financial information in respect of the Company's subsidiaries that have material non- controlling interests are set out below. The summarized financial information below represents amounts before intragroup eliminations.

## SMNC

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Current assets	1,559,016	1,103,214	381,640
Non-current assets	2,046,290	1,807,207	917,719
Current liabilities	(596,500)	(409,898)	(350,298)
Non-current liabilities	(315,718)	(327,995)	(123,626)
Net assets	2,693,088	2,172,528	825,435
Equity attributable to owners of the Company	1,368,498	1,102,825	453,989
Non-controlling interests	1,324,590	1,069,703	371,446
Net assets	2,693,088	2,172,528	825,435

	Year ended 12/31/17	Year ended 12/31/16	Year ended 12/31/15
	USD'000	USD'000	USD'000
Revenue	471,174	243,715	4,721
Expense	(574,386)	(339,910)	(64,032)
Other income (expense)	23,389	(19,480)	2,430
Loss for the year	(79,823)	(115,675)	(56,881)
Loss attributable to owners of the Company	(40,710)	(59,807)	(31,285)
Loss attributable to the non-controlling interests	(39,113)	(55,868)	(25,596)
Loss for the year	(79,823)	(115,675)	(56,881)
Other comprehensive income attributable to owners of the Company	—	—	—
Other comprehensive income attributable to the non-controlling interests	—	—	—
Other comprehensive income for the year	—	—	—
Total comprehensive loss attributable to owners of the Company	(40,710)	(59,807)	(31,285)
Total comprehensive loss attributable to the non-controlling interests	(39,113)	(55,868)	(25,596)
Total comprehensive loss for the year	(79,823)	(115,675)	(56,881)
Dividends paid to non-controlling interests	—	—	—
Net cash inflow (outflow) from operating activities	188,115	(13,082)	(71,817)
Net cash outflow from investing activities	(820,606)	(1,627,788)	(173,535)
Net cash inflow from financing activities	590,091	1,655,011	137,500
Net cash (outflow) inflow	(42,400)	14,141	(107,852)



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## SJ Semiconductor Corporation and its subsidiaries

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Current assets	205,957	224,737	164,495
Non-current assets	131,041	102,790	66,772
Current liabilities	(46,608)	(11,656)	(18,904)
Non-current liabilities	(7,002)	(5,421)	(34,331)
Net assets	283,388	310,450	178,032
Equity attributable to owners of the Company	158,729	173,992	98,411
Non-controlling interests	124,659	136,458	79,621
Net assets	283,388	310,450	178,032
	Year ended	Year ended	Year ended
	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Revenue	21,862	12,782	1,543
Expense	(39,504)	(27,300)	(9,621)
Other income (expense)	6,505	6,564	(3,274)
Loss for the year	(11,137)	(7,954)	(11,352)
Loss attributable to owners of the Company	(6,241)	(4,409)	(6,275)
Loss attributable to the non-controlling interests	(4,896)	(3,545)	(5,077)
Loss for the year	(11,137)	(7,954)	(11,352)
Other comprehensive income attributable to owners of the Company	—	—	—
Other comprehensive income attributable to the non-controlling interests	—	—	—
Other comprehensive income for the year	—	—	—
Total comprehensive loss attributable to owners of the Company	(6,241)	(4,409)	(6,275)
Total comprehensive loss attributable to the non-controlling interests	(4,896)	(3,545)	(5,077)
Total comprehensive loss for the year	(11,137)	(7,954)	(11,352)
Dividends paid to non-controlling interests	—	—	—
Net cash inflow (outflow) from operating activities	6,115	(1,194)	(9,841)
Net cash outflow from investing activities	(65,993)	(147,752)	(60,336)
Net cash (outflow) inflow from financing activities	(1,983)	109,291	175,211
Net cash (outflow) inflow	(61,861)	(39,655)	105,034

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## 19. Investments in associates

The details of the Company's associates, which are all unlisted companies except for JCET listed on the Shanghai Stock Exchange, at the end of the reporting period are as follows:

Name of company	Place of establishment and operation	Class of share held	Proportion of ownership interest and voting power held by the Group					
			12/31/17		12/31/16		12/31/15	
Toppan SMIC Electronic (Shanghai) Co., Ltd ("Toppan")	Shanghai, PRC	Ordinary	30.0	%	30.0	%	30.0	%
Zhongxin Xiecheng Investment (Beijing) Co., Ltd ("Zhongxin Xiecheng")	Beijing, PRC	Ordinary	49.0	%	49.0	%	49.0	%
Brite Semiconductor (Shanghai) Corporation ("Brite Shanghai") (4)	Shanghai, PRC	Ordinary	46.6	%	47.3	%	47.8	%
Suzhou Changjiang Electric Xinke Investment Co., Ltd. ("Changjiang Xinke") (3)	Jiangsu, PRC	Ordinary	—		19.6	%	19.6	%
Jiangsu Changjiang Electronics Technology Co., Ltd. ("JCET") (3)	Jiangsu, PRC	Ordinary	14.3	%	NA		NA	
Sino IC Leasing Co., Ltd. ("Sino IC Leasing")	Shanghai, PRC	Ordinary	8.1	(1)	11.4	(1)	8.8	(1)
China Fortune-Tech Capital Co., Ltd ("China Fortune-Tech")	Shanghai, PRC	Ordinary	30.0	%	30.0	%	45.0	%
Beijing Wu Jin Venture Investment Center (Limited Partnership) ("WuJin") (2)	Beijing, PRC	Ordinary	32.6	%	32.6	%	32.6	%
Shanghai Fortune-Tech Qitai Invest Center (Limited Partnership) ("Fortune-Tech Qitai") (2)	Shanghai, PRC	Ordinary	33.0	%	33.0	%	33.0	%
Shanghai Fortune-Tech Zaixing Invest Center (Limited Partnership) ("Fortune-Tech Zaixing") (2)	Shanghai, PRC	Ordinary	66.2	(1)	66.2	(1)	66.2	(1)
Suzhou Fortune-Tech Oriental Invest Fund Center (Limited Partnership) ("Fortune-Tech Oriental") (2)	Jiangsu, PRC	Ordinary	44.8	%	44.8	%	44.8	%
Juyuan Juxin Integrated Circuit Fund ("Juyuan Juxin") (2)	Shanghai, PRC	Ordinary	31.6	%	40.9	%	NA	

(1)

In accordance with investment agreements, the Group has significant influence over Fortune-Tech Zaixing and Sino IC Leasing.

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- (2) On April 27, 2016, SilTech Shanghai and JCET entered into a disposal agreement (the “Disposal Agreement”), pursuant to which SilTech Shanghai agreed to sell its 19.61% ownership interest in Changjiang Xinke to JCET in consideration of RMB664.0 million, which will be satisfied by JCET’s issue of 43,229,166 shares of JCET to SilTech Shanghai at RMB RMB15.36 per share. On the same day, SilTech Shanghai and JCET entered into a subscription agreement (the “Subscription Agreement”), pursuant to which SilTech Shanghai agreed to subscribe for and JCET agreed to issue 150,681,044 shares of JCET in consideration of an aggregate subscription price of RMB2,655.0 million in cash. On May 10, 2017, the Company was notified by JCET that the China Securities Regulatory Commission has granted approval for this transaction, and the Disposal Agreement and the Subscription Agreement became effective accordingly. On June 19, 2017, the transactions were completed and SMIC became the single largest shareholder of JCET. The Group recorded its ownership interest of JCET as investment in associate due to its right to nominate directors of JCET’s board.
- (3) The Group invested in these associates indirectly through China IC Capital Co., Ltd (the “Fund”), a wholly-owned investment fund company of SMIC, as set out in Note 19. The Fund is intended to invest primarily in integrated circuits related fund products and investment projects. The Group’s joint ventures and available-for-sale investments invested indirectly through the Fund are disclosed in Note 21 and Note 23, respectively.
- (4) Since September 30, 2017, the Group invested Brite Shanghai directly with no more investment in Brite Semiconductor Corporation, the holding company of Brite Shanghai.

All of these associates are accounted for using the equity method in these consolidated financial statements.

## Toppan

	12/31/17	12/31/16	12/31/15
	USD’000	USD’000	USD’000
Current assets	55,966	53,716	51,661
Non-current assets	19,978	17,205	22,554
Current liabilities	(1,727)	(2,246)	(2,062)
Non-current liabilities	—	—	—
Net assets	74,217	68,675	72,153

	Year ended 12/31/17	Year ended 12/31/16	Year ended 12/31/15
	USD’000	USD’000	USD’000
Total revenue	18,391	20,711	20,782
Profit for the year	1,235	1,178	3,267
Other comprehensive income for the year	—	—	—
Total comprehensive income for the year	1,235	1,178	3,267
Dividends received from the associate during the year	—	—	—

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Reconciliation of the above summarized financial information to the carrying amount of the interest in the associate recognized in the consolidated financial statements:

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Net assets of the associate	74,217	68,675	72,153
Proportion of the Group's ownership interest in Toppan	30 %	30 %	30 %
Carrying amount of the Group's interest in Toppan	22,265	20,603	21,646

## JCET and its subsidiaries

In accordance with IAS 39, the group applies the equity method accounted for its investments in JCET on one quarter lag basis since the annual financial report of JCET were not available as of December 31, 2017.

	09/30/17
	USD'000
Current assets	1,401,575
Non-current assets	3,305,615
Current liabilities	(1,639,114)
Non-current liabilities	(1,661,532)
Net assets	1,406,544
Equity attributable to owners of the associate	1,385,372
Non-controlling interests	21,172
Net assets	1,406,544

	Three months ended
	09/30/17
	USD'000
Total revenue	958,087
Profit attributable to owners of the associate	11,480
Profit attributable to the non-controlling interests	628
Profit for the period	12,108
Other comprehensive loss for the period	(19,986)
Total comprehensive loss for the period	(7,878)
Total comprehensive loss attributable to owners of the associate	(8,496)
Total comprehensive income attributable to the non-controlling interests	618
Total comprehensive loss for the period	(7,878)
Dividends received from the associate during the period	—

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Reconciliation of the above summarized financial information to the carrying amount of the interest in the associate recognized in the consolidated financial statements:

	12/31/17	
	USD'000	
Equity attributable to owners of the associate	1,385,372	
Proportion of the Group's ownership interest in JCET	14.3	%
	197,832	
Valuation premium	340,561	
Carrying amount of the Group's interest in JCET	538,393	

## Fortune-Tech Zaixing

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Current assets	2,264	12,720	15,513
Non-current assets	19,965	8,520	7,581
Current liabilities	(2)	(1)	(3)
Non-current liabilities	—	—	—
Net assets	22,227	21,239	23,091

	Year ended	Year ended	Year ended
	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Total revenue	—	—	—
Loss for the year	(366)	(329)	(178)
Other comprehensive income for the year	—	—	—
Total comprehensive loss for the year	(366)	(329)	(178)
Dividends received from the associate during the year	—	—	—

Reconciliation of the above summarized financial information to the carrying amount of the interest in the associate recognized in the consolidated financial statements:

	12/31/17	12/31/16	12/31/15	
	USD'000	USD'000	USD'000	
Net assets of the associate	22,227	21,239	23,091	
Proportion of the Group's ownership interest in Fortune-Tech Zaixing	66.2	%	66.2	%
Carrying amount of the Group's interest in Fortune-Tech Zaixing	14,714	14,087	15,292	



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## Sino IC Leasing and its subsidiaries

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Current assets	1,038,538	702,570	502,454
Non-current assets	3,464,412	1,859,267	21,374
Current liabilities	(523,228)	(117,287)	(8,679)
Non-current liabilities	(2,509,732)	(1,653,206)	(190,021)
Net assets	1,469,990	791,344	325,128
Equity attributable to owners of the associate	1,366,367	776,959	325,128
Non-controlling interests	103,623	14,385	—
Net assets	1,469,990	791,344	325,128

	Year ended 12/31/17	Year ended 12/31/16	Year ended 12/31/15
	USD'000	USD'000	USD'000
Total revenue	215,538	36,085	2,437
Profit attributable to owners of the associate	39,003	12,938	3,761
Profit attributable to the non-controlling interests	460	48	—
Profit for the year	39,463	12,986	3,761
Other comprehensive (loss) income for the year	(10,206)	3,594	—
Total comprehensive income for the year	29,257	16,580	3,761
Total comprehensive income attributable to owners of the associate	28,797	16,532	3,761
Total comprehensive income attributable to the non-controlling interests	460	48	—
Total comprehensive income for the year	29,257	16,580	3,761
Dividends received from the associate during the year	255	—	—

Reconciliation of the above summarized financial information to the carrying amount of the interest in the associate recognized in the consolidated financial statements:

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Equity attributable to owners of the associate	1,366,367	776,959	325,128
Proportion of the Group's ownership interest in Sino IC Leasing	8.1	% 11.4	% 8.8
Carrying amount of the Group's interest in Sino IC Leasing	110,162	88,651	28,736



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## Juyuan Juxin

	12/31/17	12/31/16
	USD'000	USD'000
Current assets	108,639	47,494
Non-current assets	55,761	—
Current liabilities	(33)	(7)
Non-current liabilities	—	—
Net assets	164,367	47,487

	Year ended 12/31/17	Year ended 12/31/16
	USD'000	USD'000
Total revenue	—	—
Loss for the year	(3,120)	(1,893)
Other comprehensive income for the year	—	—
Total comprehensive loss for the year	(3,120)	(1,893)
Dividends received from the associate during the year	—	—

Reconciliation of the above summarized financial information to the carrying amount of the interest in the associate recognized in the consolidated financial statements:

	12/31/17	12/31/16
	USD'000	USD'000
Net assets of the associate	164,367	47,487
Proportion of the Group's ownership interest in Juyuan Juxin	31.6 %	40.9 %
Carrying amount of the Group's interest in Juyuan Juxin	51,940	19,408

## 20. Investments in joint ventures

Details of the Group's joint ventures, which are all unlisted companies invested indirectly through China IC Capital Co., Ltd, at the end of the reporting period are as follows:

Name of company	Place of establishment and operation	Class of share held	Proportion of ownership interest and voting power held by the Group		
			12/31/17	12/31/16	12/31/15
Shanghai Xinxin Investment Centre (Limited Partnership) ("Shanghai Xinxin")	Shanghai, PRC	Ordinary	49.0 %	49.0 %	49.0 %

Shanghai Chengxin  
Investment Center (Limited  
Partnership) (“Shanghai  
Chengxin”)

Shanghai, PRC

Ordinary

31.5

%

42.0

%

42.0

%

Summarized financial information in respect of the Group’s material joint venture is set out below.

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## Shanghai Xinxin

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Current assets	1,453	10,679	4,917
Non-current assets	53,782	13,283	28,631
Current liabilities	(6)	(7)	(3,287)
Non-current liabilities	—	—	—
Net assets	55,229	23,955	30,261

	Year ended 12/31/17	Year ended 12/31/16	Year ended 12/31/15
	USD'000	USD'000	USD'000
Total revenue		—	—
(Loss) profit for the year	(390)	4,540	(609)
Other comprehensive income for the year	30,441	—	—
Total comprehensive income (loss) for the year	30,051	4,540	(609)
Dividends received from the joint venture during the year	—	2,027	—

Reconciliation of the above summarized financial information to the carrying amount of the interest in the joint venture recognized in the consolidated financial statements:

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Net assets of the joint venture	55,229	23,955	30,261
Proportion of the Group's ownership interest in Shanghai Xinxin	49.0 %	49.0 %	49.0 %
Carrying amount of the Group's interest in Shanghai Xinxin	27,062	11,740	14,829

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## 21. Other financial assets

	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
At fair value			
Non-current			
Derivatives			
Cross currency swap contracts – cash flow hedges	17,598	—	—
Current			
Derivatives			
Foreign currency forward contracts	2,111	—	172
Cross currency swap contracts – cash flow hedges	4,739		
Short-term investments			
Financial products sold by banks	117,928	24,931	257,583
Bank deposits will mature over 3 months	559,034	6,612	25,125
	683,812	31,543	282,880
	701,410	31,543	282,880

## 22. Restricted cash

	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Restricted cash			
Non-current (1)	13,438	20,080	—
Current (2)	336,043	337,699	302,416
	349,481	357,779	302,416

## (1)Restricted cash — non current

As of December 31, 2017, the non-current restricted cash consisted of US\$13.4 million (EUR11.2 million, December 31, 2016: US\$20.1 million and December 31, 2015: nil) of bank time deposits pledged against long-term borrowing from MPS Capital Services S.p.A. of US\$1.3 million (EUR1.1 million) and from Cassa Depositie Prestiti of US\$12.1 million (EUR10.1 million).

## (2)Restricted cash — current

As of December 31, 2017, the current restricted cash consisted of US\$14.9 million (December 31, 2016: US\$2.9 million and December 31, 2015: US\$1.1 million) of bank time deposits, within which US\$9.3 million was pledged against letters of credit and short-term borrowings, and US\$5.6 million (EUR4.7 million) was pledged against long-term borrowing current portions from MPS Capital Services S.p.A. of US\$0.5 million (EUR0.5 million) and from Cassa Depositie Prestiti of US\$5.1 million (EUR4.2 million).

As of December 31, 2017, 2016 and 2015, the current restricted cash consisted of US\$235.3 million, US\$191.9 million and US\$74.0 million, respectively of government funding received mainly for the reimbursement of research and development expenses to be incurred.

As of December 31, 2017, 2016 and 2015 the current restricted cash of US\$85.8 million and US\$142.9 and US\$227.3 million were from low interest cost entrusted loans granted by CDB

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Development Fund through China Development Bank, which is designated to be used for future capacity expansion. The Group expects to spend the restricted cash within the next 12 months.

## 23. Other assets

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Available-for-sale investments	24,844	21,966	19,750
MPS Bonds	—	4,634	—
Others	17,966	16,270	12,328
Non-current	42,810	42,870	32,078

Available-for-sale investments are primarily fund companies and investment projects invested indirectly through China IC Capital Co., Ltd in the integrated circuits industry.

## 24. Inventories

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Raw materials	149,574	126,526	88,134
Work in progress	321,695	280,216	225,475
Finished goods	151,410	57,474	73,717
	622,679	464,216	387,326

The cost of inventories recognized as an expense (income) during the year in respect of inventory provision (reversal) was US\$46.9 million (2016: US\$3.7 million and 2015: US\$(13.3) million).

## 25. Trade and other receivables

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Trade receivables	407,975	491,018	399,200
Allowance on doubtful trade receivables	(1,335)	(1,491)	(41,976)
	406,640	489,527	357,224
Other receivables and refundable deposits	209,668	156,295	142,622
	616,308	645,822	499,846

The Group determines credit terms mostly ranging from 30 to 60 days for each customer on a case- by-case basis, based on its assessment of such customer's financial standing and business potential with the Group.

The Group determines its allowance on doubtful trade receivables based on the Group's historical experience and the relative aging of receivables as well as individual assessment of certain debtors. The Group provides allowance on doubtful trade receivables based on recoverable amount by making reference to the age category of the remaining receivables and subsequent settlement. The Group's allowance on doubtful trade receivables excludes receivables from a limited number of customers due to their high credit worthiness. The Group recognized US\$0.3 million, US\$0.2 million and US\$0.5 million of allowance on doubtful trade receivables respectively during the year ended December 31, 2017, 2016 and 2015 respectively. The Group reviews, analyzes and adjusts allowance on doubtful trade receivables on a monthly basis.

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In evaluating the customers' credit quality, the Group used an internal system based on each customer's operation size, financial performance, listing status, payment history and other qualitative criteria. These criteria are reviewed and updated annually. Based on such evaluation, the Group believes the recoverability of those receivables that are not impaired is reasonably assured.

## Trade receivables

Of the trade receivables balance at the end of the year of 2017, 2016 and 2015, US\$228.9 million, US\$208.3 million and US\$125.7 million respectively are due from the Group's two largest customers.

The following is an aged analysis of trade receivables presented based on the invoice date at the end of the reporting period.

## Age of receivables

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Within 30 days	148,131	274,087	177,542
31-60 days	187,623	179,453	151,377
Over 60 days	72,221	37,478	70,281
Total trade receivables	407,975	491,018	399,200

Trade receivables disclosed above include amounts (see below for aged analysis) that are past due at the end of the reporting for which the Group has not recognized an allowance on doubtful trade receivables because there has not been a significant change in credit quality and the amounts are still considered recoverable.

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Neither past due nor impaired	331,469	444,145	312,479
Past due but not impaired			
Within 30 days	62,267	34,872	39,737
31-60 days	9,583	8,875	3,534
Over 60 days	3,321	1,635	1,474
Total carrying amount	406,640	489,527	357,224
Average overdue days	26	27	23

Due to the short-term nature of the current receivables, their carrying amount is considered to be the same as their fair value.

## Movement in allowance on doubtful trade receivables

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Balance at beginning of the year	1,491	41,976	42,014



Addition in allowance on doubtful trade receivables	301	201	528
Amounts written off during the year as uncollectible	(19)	(39,083)	(25)
Reversal of allowance on doubtful trade receivables	(438)	(1,603)	(541)
Balance at end of the year	1,335	1,491	41,976

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In determining the recoverability of a trade receivable, the Group considers any change in the credit quality of the trade receivable from the date credit was initially granted up to the end of the reporting period.

## 26. Assets classified as held-for-sale

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Assets related to employee's living quarters	37,471	50,813	72,197

Non-current assets are classified as held-for-sale if their carrying amount will be recovered principally through a sale transaction rather than through continuing use. This condition is regarded as met only when the sale is highly probable and the non-current asset is available for immediate sale in its present condition. Management must be committed to the sale, which should be expected to qualify for recognition as a completed sale within one year from the date of classification.

## 27. Shares and issued capital

## Fully paid ordinary shares

	Number of shares	Share capital USD'000	Share Premium USD'000
Balance at December 31, 2014	35,856,096,167	14,342	4,376,630
Issuance of shares under the Company's employee share option plan	232,284,137	93	20,819
Ordinary shares issued at June 8, 2015	4,700,000,000	1,880	397,580
Ordinary shares issued at September 25, 2015	323,518,848	130	27,392
Ordinary shares issued at October 9, 2015	961,849,809	385	81,440
Balance at December 31, 2015	42,073,748,961	16,830	4,903,861
Issuance of shares under the Company's employee share option plan	329,531,926	132	35,367
Conversion of convertible bonds during the year	105,128,132	42	11,023
Adjustment arising from the Share Consolidation	(38,257,568,118)	—	—
Issuance of shares under the Company's employee share option plan after the Share Consolidation	2,081,358	8	697
Balance at December 31, 2016	4,252,922,259	17,012	4,950,948
Issuance of shares under the Company's employee share option plan (Note 39)	32,723,622	130	35,178
Conversion of convertible bonds during the year	389,042,383	1,556	427,168
Share premium reduction	—	—	(910,849)
Ordinary shares issued at December 6, 2017	241,418,625	966	325,174
Balance at December 31, 2017	4,916,106,889	19,664	4,827,619

On December 6, 2017, pursuant to the terms and conditions of the placing agreement entered by the Company and joint placing agents, the Company allotted and issued 241,418,625 placing shares, representing approximately 4.92% of the issued share capital of the Company as enlarged by the issue of the placing shares, to not less than six independent placees at the price of HK\$10.65 per placing share. The net proceeds are recorded as share capital of approximately US\$1.0 million and share premium of approximately US\$325.2 million in the statements of financial position. Net proceeds of issue are measured after deducting directly attributable transaction costs of the share issue.

On June 23, 2017, the Board has been approved by the shareholders at the Annual General Meeting to reduce the amount standing to the credit of the share premium account of the Company by an amount of US\$910.8 million and to apply such amount to eliminate the accumulated losses of the Company as of December 31, 2016.

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On June 23, 2017, the Board has been approved by the shareholders at the Annual General Meeting to increase the authorized share capital of the Company to US\$42,000,000 divided into 10,000,000,000 ordinary shares and 500,000,000 preferred shares by the creation of an additional 5,000,000,000 ordinary shares in the share capital of the Company, which will rank pari passu with all existing ordinary shares.

In 2016, the Company proposed to implement the Share Consolidation on the basis that every ten issued and unissued shares of US\$0.0004 each of the Company will be consolidated into one ordinary share of US\$0.004 each. The proposed share consolidation was approved by the Company's shareholders at the Extraordinary General Meeting held on December 6, 2016 and the share consolidation became effective on December 7, 2016.

On February 12, 2015, the Company entered into a share purchase agreement with China IC Fund. Pursuant to the share purchase agreement, the Company proposed to issue 4,700,000,000 ordinary shares before the effect of Share Consolidation (the "Placing of New Shares") to the China IC Fund at a consideration of approximately HK\$3,098.71 million. On June 8, 2015, the Placing of New Shares was completed and the Company issued 4,700,000,000 ordinary shares before the effect of Share Consolidation to Xinxin (Hongkong) Capital Co., Limited, a wholly-owned subsidiary of the China IC Fund, at the issue price of HK\$0.6593 per ordinary share. The net proceeds were recorded as share capital of approximately US\$1.9 million and share premium of approximately US\$397.6 million in the statements of financial position. Net proceeds of issue were measured after deducting directly attributable transaction costs of the share issue.

On November 6, 2008 and April 18, 2011, respectively, the Company entered into share purchase agreements with Datang Telecom Technology & Industry Holdings Co., Ltd. ("Datang Holdings") and Country Hill Limited ("Country Hill") which granted each of Datang Holdings (Hongkong) Investment Company Limited ("Datang") and Country Hill a pre-emptive right to subscribe for additional shares if the Company issues new shares to other investors. On March 2, 2015, the Company received irrevocable notices from both Datang and Country Hill about exercising their pre-emptive right as a result of the Placing of New Shares. On June 11, 2015, Datang and Country Hill entered into agreements with the Company ("2015 Datang Pre-emptive Share Purchase Agreement" and "2015 Country Hill Pre-emptive Share Purchase Agreement", respectively) to subscribe for 961,849,809 ordinary shares before the effect of Share Consolidation and 323,518,848 ordinary shares before the effect of Share Consolidation, respectively, at a price of HK\$0.6593 per share. On September 25, 2015, Country Hill subscribed 323,518,848 ordinary shares before the effect of Share Consolidation of the Company. On October 9, 2015, Datang subscribed 961,849,809 ordinary shares before the effect of Share Consolidation of the Company.

As of the date of this report, the Company has been informed by each of Datang and China IC Fund in a non-legally binding letter of intent that it intends to exercise its pre-emptive right in relation to the issue of the placing shares on December 6, 2017, up to the amount it is entitled to under the Datang Purchase Agreement (in the case of Datang) and the China IC Fund Purchase Agreement (in the case of China IC Fund), respectively.

Fully paid ordinary shares, which have a par value of US\$0.004 (after the share consolidation), carry one vote per share and carry a right to dividends.

### Stock incentive plans

The Company has adopted the stock incentive plans under which options to subscribe for the Company's shares have been granted to certain employees, officers and other service providers (Note 39).

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## 28. Reserves

## Equity-settled employee benefits reserve

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Balance at beginning of year	65,703	70,459	64,540
Arising on share-based payments	17,495	13,838	18,088
Transfer to share premium	(18,220)	(18,594)	(12,169)
Balance at end of year	64,978	65,703	70,459

The above equity-settled employee benefits reserve related to share options and RSUs granted by the Company to the Group's employees and service providers under stock incentive plans. Items included in equity-settled employee benefits reserve will not be reclassified subsequently to profit or loss. Further information about share-based payments to employees and service providers is set out in Note 39.

## Foreign currency translation reserve

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Balance at beginning of year	(22,087)	(3,956)	4,229
Exchange differences arising on translating the foreign operations	21,590	(18,131)	(8,185)
Balance at end of year	(497)	(22,087)	(3,956)

Exchange differences relating to the translation of the results and net assets of the Group's foreign operations from their functional currencies to the Group's presentation currency (i.e. United States dollars) are recognized directly in other comprehensive income and accumulated in the foreign currency translation reserve. Exchange differences previously accumulated in the foreign currency translation reserve (in respect of translating both the net assets of foreign operations and hedges of foreign operations) are reclassified to profit or loss on the disposal/deconsolidation of the foreign operation.

## Change in value of available-for-sale financial assets

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Balance at beginning of year	1,245	447	—
Change in value of available-for-sale financial assets during this year	(2,356)	798	447
Balance at end of year	(1,111)	1,245	447

The changes in the carrying amount of available-for-sale financial assets, which were initially recognized at fair value plus transaction costs and subsequently carried at fair value, recognized in other comprehensive income and accumulated under the heading of investments revaluation reserve. When the investment is disposed of or is determined to be impaired, the cumulative gain or loss previously accumulated in the investments revaluation reserve

is reclassified to profit or loss.

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## Convertible bonds equity reserve

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Balance at beginning of year	81,678	29,564	29,564
Recognition of the equity component of convertible bonds	—	52,935	—
Conversion options exercised during the year	(29,625)	(821)	—
Balance at end of year	52,053	81,678	29,564

The conversion option from the issuance of convertible bonds classified as equity is determined by deducting the amount of the liability component from the fair value of the compound instrument (i.e. convertible bond) as a whole. This is recognized and included in equity, net of income tax effects, and is not subsequently remeasured. In addition, the conversion option classified as equity will remain in equity until the conversion option is exercised, in which case, the balance recognized in equity will be transferred to share premium. Where the conversion option remains unexercised at the maturity date of the convertible bond, the balance recognized in equity will be transferred to retained earnings. No gain or loss is recognized in profit or loss upon conversion or expiration of the conversion option.

## Defined benefit plan reserve

	12/31/17	12/31/16
	USD'000	USD'000
Balance at beginning of year	1,520	—
Actuarial gains or losses on defined benefit plan	(436)	1,520
Balance at end of year	1,084	1,520

The benefit obligation was due LFoundry. LFoundry's employees are entitled to a defined benefit plan. Actuarial gains and losses can result from increases or decreases in the present value of a defined benefit obligation due to experience adjustments or changes in actuarial assumptions. Please refer to Note 36 for details.

## Cash flow hedges

	12/31/17	12/31/16
	USD'000	USD'000
Balance at beginning of year	(34,627)	—
Gain (loss) recognized during this year	35,143	(34,627)
Balance at end of year	516	(34,627)

The hedging reserve is used to record gains or losses on derivatives that are designated and qualify as cash flow hedges and that are recognized in other comprehensive income, as described in note 40. Amounts will be reclassified to profit or loss when the associated hedged transaction affects profit or loss.





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Share of other comprehensive income of joint ventures accounted for using the equity method

	12/31/17 USD'000
Balance at beginning of year	—
Change in share of other comprehensive income of joint ventures accounted for using the equity method	17,646
Balance at end of year	17,646

The reserve of share of other comprehensive income of joint ventures accounted for using the equity method was recognized as the Group's share of the change in value of available-for-sale financial assets of the joint ventures in 2017.

#### 29. Retained earnings (accumulated deficit)

As stipulated by the relevant laws and regulations applicable to China's foreign investment enterprise, the Company's PRC subsidiaries are required or allowed to make appropriations to non-distributable reserves. The general reserve fund requires annual appropriation of 10% of after tax profit (as determined under accounting principles generally accepted in the PRC at each year-end), after offsetting accumulated losses from prior years, until the accumulative amount of such reserve fund reaches 50% of registered capital of the relevant subsidiaries. The general reserve fund can only be used to increase the registered capital and eliminate future losses of the relevant subsidiaries under PRC regulations. The staff welfare and bonus reserve is determined by the board of directors of the respective PRC subsidiaries and used for the collective welfare of the employee of the subsidiaries. The enterprise expansion reserve is for the expansion of the subsidiaries' operations and can be converted to capital subject to approval by the relevant authorities. These reserves represent appropriations of the retained earnings determined in accordance with Chinese law. In 2017 the Company did not make any appropriation to non-distributable reserves. As of December 31, 2017, 2016 and 2015, the accumulated non-distributable reserve was US\$30 million, US\$30 million and US\$30 million respectively.

In addition, due to restrictions on the distribution of paid-in capital from the Company's PRC subsidiaries, the PRC subsidiaries' paid-in capital of US\$10,782 million at December 31, 2017 is considered restricted.

As a result of these PRC laws and regulations, as of December 31, 2017, reserve and capital of approximately US\$10,812 million was not available for distribution to the Company by its PRC subsidiaries in the form of dividends, loans or advances.

In 2017, 2016 and 2015 the Company did not declare or pay any cash dividends on the ordinary shares.

On June 23, 2017, the accumulated losses of the Company as of December 31, 2016 were eliminated by an amount of US\$910.8 million. Please refer to Note 27 for more details.

On December 29, 2017, SMIC Shanghai and SJ Jianguyin had entered into an asset transfer agreement in relation to the disposal and sale of unvalued assets. The purpose of the disposal was to transfer the business operation of the Shanghai Testing Centre from SMIC Shanghai to SJ Jianguyin and merge the business operation of Shanghai Testing Centre to SJ Jianguyin. The transfer of business operation raised a retained earnings of US\$7.3 million for the Company and a corresponding loss for non-controlling interests.



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30. Perpetual subordinated convertible securities

The Company issued the perpetual subordinated convertible securities at a par value of US\$250,000 each in the principal amount of US\$65,000,000 on December 14, 2017 (the “PSCS”).

The principal terms of the PSCS are as follows:

- (1) Denomination of the PSCS — The PSCS are denominated in USD.
- (2) Maturity date — Perpetual with no fixed redemption date.
- (3) Subordination of the PSCS — In the event of the Winding-Up of the Company, the rights and claims of the Securityholders shall rank ahead of those persons whose claims are in respect of any Junior Securities of the Company, but shall be subordinated in right of payment to the claims of all other present and future senior and subordinated creditors of the Company, other than the claims of holders of Parity Securities.
- (4) Distribution —
  - a) Distribution Rate — 2.00% per annum, payable semi-annually in arrears.
  - b) Distribution Payment Dates — June 14, and December 14, in each year, commencing on June 14, 2018.
  - c) Deferral of Distributions — The Company may elect to defer Distribution which is otherwise scheduled to be paid on a Distribution Payment Date to the next Distribution Payment Date by giving notice to the Securityholders not more than 10 nor less than 5 Business Days prior to a scheduled Distribution Payment Date if, during the 12 months ending on the day before that scheduled Distribution Payment Date no discretionary dividend, distribution or other discretionary payment has been paid or declared by the Company on or in respect of its Junior Securities or its Parity Securities.
  - d) Distribution Stopper — If (i) on any Distribution Payment Date, payment of all Distribution payments scheduled to be made on such date is not made in full, or (ii) a Credit Event has occurred and is continuing, the Company shall not:
    - (i) declare or pay any dividends, distributions or make any other payment on, and will procure that no dividend or other payment is made on any Junior Securities or Parity Securities; or
    - (ii) redeem, reduce, cancel, buy-back or acquire for any consideration any Junior Securities or Parity Securities unless and until (1) the Company satisfies in full all outstanding Arrears of Distribution and any Additional Distribution Amounts; or (2) it is permitted to do so by an Extraordinary Resolution of the Securityholders.
- (5) Conversion —
  - a) Conversion Rights — Securityholders may convert their PSCS into Shares during the Conversion Period at the Conversion Price in effect on the relevant Conversion Date.

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- b) Conversion period — Any time on or after 40 days from the Issue Date. If the PSCS have been called for redemption, then up to the close of business on a date no later than 7 days prior to the date fixed for redemption or if notice requiring redemption has been given by the Securityholder, then up to the close of business on the day prior to the giving of such notice.
- c) Initial Conversion Price — HK\$12.78 per Share.
- d) Initial Conversion Ratio — 152,648.6697 Shares per US\$250,000 principal amount of the Security at the Initial Conversion Price.
- e) Fixed Exchange Rate — HK\$7.8034 = US\$1.00.
- f) Step up events — Upon occurrence of a Change of Control Event or Suspension (if not cured or the Securities not called in each case within 30 days), the Distribution Rate will increase by 3.00% per annum.
- g) Adjustment to Conversion Price — The Conversion Price will be adjusted in certain circumstances, including subdivisions, consolidation or redenomination, rights issue, bonus issue, reorganization, capital distributions and certain other dilutive event.
- (6) Redemption —
  - a) At the option of the Company:
    - (i) Company Call — On or at any time after December 14, 2020 (the “Third Anniversary Date”), the Company may, having given not less than 30 nor more than 60 days’ notice, redeem the PSCS in whole, but not in part, at their principal amount together with Distribution accrued to the date fixed for redemption, provided that the Closing Price of the Shares for any 20 Trading Days out of 30 consecutive Trading Days immediately prior to the date upon which notice of such redemption is given, was at least 130% of the applicable Conversion Price then in effect.
    - (ii) Clean Up Call — On giving not less than 45 nor more than 60 days’ notice, the Company shall redeem all and not some only of the PSCS at (1) the Early Redemption Amount, at any time before the Third Anniversary Date or (2) their principal amount together with Distribution accrued to the date fixed for redemption, at any time on or after the Third Anniversary Date if, prior to the date the relevant Optional Redemption Notice is given, Conversion Rights shall have been exercised and/or purchases (and corresponding cancellations) and/or redemptions effected in respect of 90% or more in principal amount of the PSCS originally issued.
    - (iii) Tax Call — The Company may at its option, at any time, on giving not less than 30 nor more than 60 days’ notice to the Securityholders and the Trustee, redeem in whole but not in part at their principal amount together with Distribution accrued to the date fixed for redemption if there is any change to Cayman Islands, Hong Kong or any political subdivision or any authority thereof or therein having power to tax, or any change in the general application or official interpretation of such laws or regulations would result in the Company becoming liable to pay additional tax amount.

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- (iv) Accounting Call — Upon occurrence of an Equity Disqualification Event, the Company may at its option, at any time, on giving not less than 30 nor more than 60 days' notice to the Securityholders redeem, in whole but not in part, the PSCS at (i) the Early Redemption Amount if such redemption occurs prior to the Third Anniversary Date or (ii) their principal amount together with any Distribution accrued to the date fixed for redemption if such redemption occurs on or after the Third Anniversary Date.
- (v) Rating Call — Upon occurrence of a Rating Disqualification Event, the Company may at its option, at any time, on giving not less than 30 nor more than 60 days' notice to the Securityholders redeem, in whole but not in part, the PSCS at (i) the Early Redemption Amount if such redemption occurs prior to the Third Anniversary Date or (ii) their principal amount together with any Distribution accrued to the date fixed for redemption if such redemption occurs on or after the Third Anniversary Date.
- b) At the option of the Securityholder:
  - (i) Following occurrence of any delisting or suspension arising from or as a result of an application to HKSE having been initiated or made by the Group or such delisting or suspension having been effected or imposed through any other means controlled by the Group or otherwise resulting from any action of the Group or any default or non-compliance by the Group of any of its obligations that are within its control (whether or not imposed by law or the listing rules of HKSE), the holder of each Security will have the right to require the Company to redeem all or some only of PSCS at their principal amount, together with any Distribution accrued to the date fixed for redemption.
  - (ii) Tax Call — Securityholders have the right to elect for their PSCS not to be redeemed but with no entitlement to any additional amounts.

The PSCS are included in equity in the Group's consolidated financial statements as the Group does not have a contractual obligation to deliver cash or other financial assets arising from the issue of the PSCS. The PSCS will remain as equity reserve until the PSCS are converted, in which case, the balance recognized in equity will be transferred to ordinary shares and share premium.

As at the issue date and the year ended December 31, 2017, the net book value of PSCS amounted to US\$64.1 million after the deduction of issue expenses of US\$0.9 million.

Up to the date of the authorization of the Group's consolidated financial statements for the year ended December 31, 2017, no PSCS have been converted into ordinary shares of the Company, either no distribution was paid.

As of the date of this report, the Company has been informed by each of Datang and China IC Fund in a non-legally binding letter of intent that it intends to exercise its pre-emptive right in relation to the issue of the placed PSCS on December 6, 2017 with an additional allocation of approximately US\$200,000,000 (including the amount it is entitled to in relation to the exercise of pre-emptive right) in aggregate principal amount of the placed PSCS (in the case of Datang) and with an additional allocation of up to US\$300,000,000 (including the amount it is entitled to in relation to the exercise of pre-emptive right) in principal amount of the placed PSCS (in the case of China IC Fund).

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## 31. Borrowings

	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
At amortized cost			
Short-term commercial bank loans (i)	308,311	176,957	62,872
Short-term borrowings	308,311	176,957	62,872
2013 USD loan (SMIC Shanghai) (ii)	10,760	10,760	10,760
2015 USD loan (SMIC Shanghai)	—	39,641	52,854
2015 CDB USD loan (SJ Jiangyin)	—	2,000	20,000
2015 CDB RMB loan I (SMIC Shanghai) (iii)	153,041	144,155	154,095
2015 CDB RMB loan II (SMIC Shanghai) (iv)	72,694	68,473	73,195
2015 CDB RMB loan (SMIC Beijing) (v)	29,231	28,110	30,048
2016 CDB RMB loan (SMIC Beijing) (vi)	223,440	210,466	—
2017 CDB RMB loan (SMIC Shenzhen) (vii)	185,792	—	—
2015 EXIM RMB loan (SMIC Shanghai) (viii)	76,520	72,077	73,966
2017 EXIM RMB loan (SMIC Shanghai) (ix)	153,041	—	—
2014 EXIM RMB loan (SMIC Beijing)	—	—	36,983
2016 EXIM RMB loan I (SMIC Beijing) (x)	36,730	34,597	—
2016 EXIM RMB loan II (SMIC Beijing) (xi)	61,216	57,662	—
2017 EXIM RMB loan (SMIC Beijing) (xii)	76,520	—	—
2016 EXIM RMB loan (SMIC) (xiii)	76,520	72,077	—
2017 EXIM RMB loan (SMIC Tianjin) (xiv)	76,520	—	—
2017 EXIM USD loan (SMIC Tianjin) (xv)	25,000	—	—
2017 EXIM RMB loan (SMIC Shenzhen) (xvi)	76,520	—	—
2015 RMB entrust loan (SJ Jiangyin)	—	—	14,331
2014 Cassa Depositie Prestiti loan (LFoundry) (xvii)	25,871	26,026	—
2014 MPS capital service loan (LFoundry) (xviii)	5,132	4,578	—
2014 Citizen Finetech Miyota loan (LFoundry) (xix)	3,502	3,926	—
2017 Banca del Mezzogiorno loan (LFoundry) (xx)	1,529	—	—
Finance lease payables (xxi)	6,252	7,057	—
Loans from non-controlling interests shareholders (xxii)	12,750	1,627	—
Others (xxiii)	487,655	482,579	—
Long-term borrowings	1,876,236	1,265,811	466,232
	2,184,547	1,442,768	529,104
Current			
Short-term borrowings	308,311	176,957	62,872
Current maturities of long-term borrowings	132,297	32,217	50,196
	440,608	209,174	113,068
Non-current			
Non-current maturities of long-term debt	1,743,939	1,233,594	416,036
	2,184,547	1,442,768	529,104
Borrowing by repayment schedule:			
Within 1 year	440,608	209,174	113,068
Within 1–2 years	399,301	171,900	15,830
Within 2–5 years	877,315	698,070	172,916
Over 5 years	467,323	363,624	227,290
	2,184,547	1,442,768	529,104

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## Summary of borrowing arrangements

- (i) As of December 31, 2017, the Group had 34 short-term credit agreements that provided total credit facilities up to US\$2,118.5 million on a revolving credit basis. As of December 31, 2017, the Group had drawn down US\$308.3 million under these credit agreements. The outstanding borrowings under these credit agreements are unsecured. The interest rate on this loan facility ranged from 0.98% to 3.48% in 2017.
- (ii) In August 2013, SMIS entered into a loan facility in the aggregate principal amount of US\$470.0 million with a syndicate of financial institutions based in the PRC. This seven-year bank facility was used to finance the planned expansion for SMIS' 300mm fab. The facility is secured by the manufacturing equipment located in the SMIS' 300mm fab. As of December 31, 2017, SMIS had drawn down US\$260.0 million and repaid US\$249.2 million on this loan facility. The outstanding balance of US\$10.8 million is repayable in advance from February 2018 to August 2018. The interest rate on this loan facility ranged from 5.03% to 5.71% from in 2017. SMIS was in compliance with the related financial covenants as of December 31, 2017.
- (iii) In December 2015, SMIS entered into a loan facility in the aggregate principal amount of RMB1,000.0 million with China Development Bank, which is guaranteed by SMIC. This fifteen-year bank facility was used for new SMIS' 300mm fab. As of December 31, 2017, SMIS had drawn down RMB1,000 million (approximately US\$153.0 million) on this loan facility. The outstanding balance is repayable from November 2021 to November 2030. The interest rate on this loan facility was 1.20% in 2017.
- (iv) In December 2015, SMIS entered into a loan facility in the aggregate principal amount of RMB475.0 million with China Development Bank, which is guaranteed by SMIC. This ten-year bank facility was used to expand the capacity of SMIS' 300mm fab. As of December 31, 2017, SMIS had drawn down RMB475.0 million (approximately US\$72.7 million) on this loan facility. The outstanding balance is repayable from December 2018 to December 2025. The interest rate on this loan facility was 1.20% in 2017.
- (v) In December 2015, SMIB entered into an RMB loan, a fifteen-year working capital loan facility in the principal amount of RMB195.0 million with China Development Bank, which is unsecured. As of December 31, 2017, SMIB had drawn down RMB195.0 million on this loan facility. The outstanding balance of RMB191.0 million (approximately US\$29.2 million) is repayable from June 2018 to December 2030. The interest rate on this loan facility was 1.20% in 2017.
- (vi) In May 2016, SMIB entered into the RMB loan, a fifteen-year working capital loan facility in the principal amount of RMB1,460.0 million with China Development Bank, which is guaranteed by SMIC. As of December 31, 2017, SMIB had drawn down RMB1,460.0 million (approximately US\$223.4 million) on this loan facility. The principal amount is repayable from May 2018 to May 2031. The interest rate on this loan facility was 1.20% in 2017.
- (vii) In December 2017, SMIZ entered into a loan facility in the aggregate principal amount of RMB5,400.0 million with China Development Bank, which is unsecured. This seven-year bank facility was used to finance the planned expansion for SMIZ's 300mm fab. As of December 31, 2017, SMIZ had drawn down RMB1,214.0 million (approximately US\$185.8 million) on this loan facility. The outstanding balance is repayable from December 2024. The interest rate on this loan facility was 4.46% per annum in 2017.



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- (viii) In December 2015, SMIS entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIS had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable in December 2018. The interest rate on this loan facility was 2.65% in 2017.
- (ix) In March 2017, SMIS entered into a loan facility in the aggregate principal amount of RMB1,000.0 million with The Export-Import Bank of China, which is unsecured. This two-year bank facility as used for working capital purposes. As of December 31, 2017, SMIS had drawn down RMB1,000.0 million (approximately US\$153.0 million) on this loan facility. The outstanding balance is repayable in March and April 2019. The interest rate on this loan facility is 2.65% per annum in 2017.
- (x) In December 2016, SMIB entered into the RMB loan, a two-year working capital loan facility in the principal amount of RMB240.0 million with The Export-Import Bank of China, which is unsecured. This two-year bank facility was used for working capital purposes. As of December 31, 2017, SMIB had drawn down RMB240.0 million (approximately US\$36.7 million) on this loan facility. The principal amount is repayable in December 2018. The interest rate on this loan facility was 2.65% in 2017.
- (xi) In January 2016, SMIB entered into the RMB loan, a three-year working capital loan facility in the principal amount of RMB400.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIB had drawn down RMB400.0 million (approximately US\$61.2 million) on this loan facility. The principal amount is repayable in January 2019. The interest rate on this loan facility was 2.65% in 2017.
- (xii) In September 2017, SMIB entered into the new RMB loan in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This five-year bank facility was used for SMIB's 300mm fab. As of December 31, 2017, SMIB had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable from September 2018 to September 2022. The interest rate on this loan facility was 2.92% per annum in 2017.
- (xiii) In May 2016, SMIC entered into a loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIC had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable in May 2019. The interest rate on this loan facility was 2.75% to 3.05% in 2017.
- (xiv) In February 2017, SMIT entered into the new RMB loan, a three-year working capital loan facility in the principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This three-year bank facility was used for working capital purposes. As of December 31, 2017, SMIT had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable in February 2020. The interest rate on this loan facility was 4.04% per annum in 2017.
- (xv) In August 2017, SMIT entered into the new RMB loan in the aggregate principal amount of US\$25.0 million with The Export-Import Bank of China, which is unsecured. This five-year bank facility was used for SMIT's 200mm fab. As of December 31, 2017, SMIT had drawn down US\$25.0 million on this loan facility. The outstanding balance is repayable in August 2022. The interest rate on this loan facility was 2.65% per annum in 2017.

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- (xvi) In December 2017, SMIZ entered into a USD loan facility in the aggregate principal amount of RMB500.0 million with The Export-Import Bank of China, which is unsecured. This five-year bank facility was used to finance the planned expansion for SMIZ's 300mm fab. As of December 31, 2017, SMIZ had drawn down RMB500.0 million (approximately US\$76.5 million) on this loan facility. The outstanding balance is repayable from March 2018 to September 2022. The interest rate on this loan facility ranged from 3.40% in 2017.
- (xvii) In January 2014, LFoundry entered into a loan facility in the aggregate principal amount of EUR35.8 million with Cassa Depositie Prestiti. This ten-year bank facility was in relation to the admission of LFoundry to the benefits of the technology innovation fund. The facility is secured by bank deposits of EUR14.3 million and the manufacturing equipment located in LFoundry's 200mm fab. As of December 31, 2017, LFoundry had drawn down EUR35.8 million and repaid EUR11.8 million on this loan facility. The outstanding balance of EUR24.4 million (its present value is EUR21.5 million, approximately US\$25.9 million) including principal amount of EUR24.0 million and interest cash flow of EUR0.4 million is repayable from December 2017 to December 2023. The interest rate on this loan facility was 0.5% per annum in 2017.
- (xviii) In January 2014, LFoundry entered into a loan facility in the aggregate principal amount of EUR4.0 million with MPS Capital Service. This ten-year bank facility was in relation to the admission of LFoundry to the benefits of the technology innovation fund. The facility is secured by bank deposits of EUR1.6 million and the manufacturing equipment located in LFoundry's 200mm fab. As of December 31, 2017, LFoundry had drawn down EUR4.0 million on this loan facility. The outstanding balance of EUR4.8 million (its present value is EUR4.2 million, approximately US\$5.1 million) including principal amount of EUR4.0 million and interest cash flow of EUR0.8 million is repayable from June 2020 to December 2023. The interest rate on this loan facility was approximately 6% per annum in 2017.
- (xix) In June 2014, LFoundry entered into a loan facility in the aggregate principal amount of JPY480.0 million with Citizen Finetech Miyota Co.Ltd. This five-year facility was used to finance the planned expansion of LFoundry's 200mm fab. The facility is secured by the manufacturing equipment located in LFoundry's 200mm fab. As of December 31, 2017, LFoundry had drawn down JPY480.0 million and repaid JPY58.0 million on this loan facility. The outstanding balance of JPY439.0 million (its present value is JPY406.0 million, approximately US\$3.5 million) including principal amount of JPY422.0 million and interest cash flow of JPY17.0 million is repayable from December 2017 to December 2019. The interest rate on this loan facility was 4.04% in 2017.
- (xx) In June 2017, LFoundry entered into a loan facility in the aggregate principal amount of EUR1.2 million with Banca del Mezzogiorno, which is unsecured. This nine- year bank facility was in relation to the admission of LFoundry to the benefits of the European Project called Horizon. As of December 31, 2017, LFoundry had drawn down EUR1.2 million (approximately US\$1.5 million) on this loan facility. The principal amount is repayable from December 2018 to June 2026. The interest rate on this loan facility ranged from 0.8% per annum in 2017.
- (xxi) In 2016, a leasing contract entered into by the Group with one of its suppliers for the construction and installation of gas generation equipment. This transaction was accounted for a finance leasing with remaining lease term of 5 years. As at December 31, 2017, the total net future finance lease payables were US\$6.3 million.

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As of December 31, 2017, the total future minimum lease payments under finance leases and their present values (effective interest rate was 3.68%) were as follows:

	Minimum lease payments USD'000	Present value USD'000
Amounts payable:		
Within one year	1,742	1,564
In the second year	1,742	1,601
In the third to fifth years	3,193	3,087
Total minimum finance lease payments	6,677	6,252
Less: future finance cost charges	(425)	
Total net finance lease payables	6,252	
Less: current portion of finance lease payables	(1,564)	
Non-current portion of finance lease payables	4,688	

(xxii) In 2016, LFoundry entered into a loan facility in the aggregate principal amount of EUR15.0 million from non-controlling interests shareholders of LFoundry. This seven-year facility was in relation to the construction of the new co-generation. LFoundry had drawn down EUR10.6 million on this loan facility. The outstanding balance of EUR10.6 million (approximately US\$12.7 million) is repayable from September 2018 to December 2023. The interest rate on this loan facility was 3.5% in 2017.

(xxiii) Other borrowings represented US\$487.7 million (December 31, 2016: US\$482.6 million and December 31, 2015: nil) of borrowings under three arrangements entered into by the Group with third-party companies in the form of a sale and leaseback transaction with a repurchase option. A batch of production equipment of the Group was sold and leased back under the financing arrangements. As the repurchase prices are set at below US\$1.0 which are minimal compared to the expected fair value and the Group is certain that it will exercise the repurchase options, the above arrangements have been accounted for as collateralized borrowings of the Group.

As of December 31, 2017, property, plant and equipment and land use right with carrying amount of approximately US\$362.3 million (December 31, 2016: US\$631.4 million and December 31, 2015: US\$323.9 million) have been pledged to secure borrowings of the Group.

## 32. Convertible bonds

### (i) Redemption of zero coupon convertible bonds

The Company exercised its right to redeem the US\$200.0 million zero coupon convertible bonds due 2018, the US\$86.8 million zero coupon convertible bonds due 2018, the US\$95.0 million zero coupon convertible bonds due 2018 and the US\$22.2 million zero coupon convertible bonds due 2018 (the "Bonds") on March 10, 2017 being the option redemption date when all of the Bonds would be redeemed in cash at 100% of the Bonds' principal amount. The conversion price is HK\$7.965, approximately US\$1.027. On March 3, 2017, the Company received notices from all holders of the Bonds for the full conversion of the outstanding Bonds. As all outstanding Bonds have been fully converted and no Bonds remain outstanding, no redemption of the Bonds will be carried out. The Company delisted the Bonds from the Singapore Exchange Securities Trading Limited.

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(ii) Issue of US\$450 million zero coupon convertible bonds due 2022

The Company issued convertible bonds at a par value of US\$250,000 each with an aggregate principal amount of US\$450,000,000 on July 7, 2016 (the “2016 Convertible Bonds”).

The principal terms of the 2016 Convertible Bonds are as follows:

- (1) Denomination of the 2016 Convertible Bonds — The 2016 Convertible Bonds are denominated in USD.
- (2) Maturity date — Six years from the date of issuance, which is July 7, 2022 (“Maturity Date”).
- (3) Interest — The 2016 Convertible Bonds do not bear interest unless, upon due presentation thereof, payment of principal or premium (if any) is improperly withheld or refused. In such event, such unpaid amount shall bear interest at the rate of 2.0 per cent. per annum.
- (4) Conversion —
  - a) Conversion price — The price is HK\$0.9250 per each new share to be issued upon conversion of the 2016 Convertible Bonds (“Conversion Share”), subject to anti-dilutive adjustment in accordance with the terms of the bonds, including subdivision, reclassification or consolidation of shares of the Company, capitalization of profits or reserves, capital distribution, issuance of options or rights, and certain other events. With the Share Consolidation effective on December 7, 2016, the conversion price was adjusted to HK\$9.250 per share.
  - b) Conversion period — The Bondholder has the right to convert the 2016 Convertible Bonds into shares at any time on or after August 17, 2016 up to the close of business on the date falling seven days prior to the Maturity Date or if such bonds shall have been called for redemption before the Maturity Date, the conversion period will end at the close of business on the seventh day before the date fixed for redemption, which is discussed below.
  - c) Number of Conversion Shares issuable - 3,778,881,081 Conversion Shares will be issued upon full conversion of the 2016 Convertible Bonds based on the initial conversion price of HK\$0.9250 (translated at the fixed exchange rate of HK\$7.7677 = US\$1.0 as pre- determined). With the Share Consolidation effective on December 7, 2016, the number of Conversion Shares were adjusted to 377,888,108 Conversion Shares.
- (5) Redemption —
  - a) At the option of the Company:
    - (I) Redemption at maturity — The Company will redeem the outstanding 2016 Convertible Bonds at principal amount on the Maturity Date.
    - (II) Redemption for tax reasons — The Company will redeem all and not only some of the 2016 Convertible Bonds at their principal amount, at its option, at any time, on giving not less than 30 nor more than

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60 days' notice to the Bondholders on the date specified in the Tax Redemption Notice.

(III)Redemption at the Option — The Company may, having given not less than 45 nor more than 60 days' notice, redeem all and not some only of the Bonds at any time after July 7, 2020 at their principal amount if the Closing Price of a share for any 20 consecutive Trading Days, the last of which occurs not more than 10 days prior to the date upon which notice of such redemption is given, was at least 130% of the Conversion Price then in effect immediately prior to the date upon which notice of such redemption is given. If at any time the aggregate principal amount of the outstanding 2016 Convertible Bonds is less than 10% of the aggregate principal amount originally issued, the Issuer may redeem all and not only some of such outstanding 2016 Convertible Bonds at their principal amount.

b) At the option of the Bondholder:

(I)Redemption on change of control — Upon the occurrence of a Change of Control, the Bondholder will have the right, at such holder's option, to require the Company to redeem all or some only of such holder's bonds on the Change of Control put date at their principal amount of the 2016 Convertible Bonds.

(II)Redemption at the option — The holders of each Bond will have the right at such holder's option, to require the Issuer to redeem all or some only of the 2016 Convertible Bonds of such holder on July 7, 2020 at their principal amount.

(6) Purchase — The Issuer or any of their respective Subsidiaries may, subject to applicable laws and regulations, at any time and from time to time purchase the 2016 Convertible Bonds at any price in the open market or otherwise.

(7) Cancellation — All the 2016 Convertible Bonds which are redeemed, converted or purchased by the Issuer or any of its Subsidiaries, will forthwith be cancelled. Certificates in respect of all the 2016 Convertible Bonds cancelled will be forwarded to or to the order of the Registrar and such 2016 Convertible Bonds may not be reissued or resold.

The 2016 Convertible Bonds issued at July 7, 2016 is a compound instrument included a liability component and an equity component. There are embedded derivatives in respect of the early redemption features of the 2016 Convertible Bonds, which are deemed to be clearly and closely related to the host contract and therefore, do not need to be separately accounted for. As at the date of issue, the fair value of the liability component of the 2016 Convertible Bonds was approximately US\$387.9 million and the equity component was approximately US\$52.9 million, determined by deducting the amount of the liability component from the fair value of the compound instrument as a whole.

	USD'000
Principal amount	450,000
Transaction cost	(9,194)
Liability component as at the date of issue	(387,871)
Equity component as at the date of issue	52,935

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Subsequent to the initial recognition, the liability component of the 2016 Convertible Bonds was carried at amortized cost using the effective interest method. The effective interest rate of the liability component of the 2016 Convertible Bonds was 3.78% per annum. The movement of the liability component and the equity component of the 2016 Bonds for the year ended December 31, 2017 is set out below:

	Liability Component USD'000	Equity Component USD'000	Total USD'000
As at the date of issue	387,871	52,935	440,806
Interest charged	7,339	—	7,339
Balance at December 31, 2016	395,210	52,935	448,145
Interest charged	14,913	—	14,913
Conversion options exercised	(6,794)	(882)	(7,676)
As at December 31, 2017	403,329	52,053	455,382

The equity component will remain in convertible bond equity reserve until the embedded conversion option is exercised or the 2016 Convertible Bonds mature.

## 33. Bonds payable

On October 7, 2014, the Company issued 5-year unsecured corporate bonds for a total amount of US\$500.0 million. The corporate bonds carry a coupon interest rate of 4.125% with bond interest payable semi-annually on March 31 and September 30. As at the date of issue, the net book value of the liabilities amounted to US\$491.2 million after the deduction of (1) a discount of US\$5.2 million and (2) issue expenses of US\$3.6 million.

	USD'000
Principal amount	500,000
Discount of bonds payable	(5,185)
Transaction cost	(3,634)
Bonds payable as at the date of issue	491,181

The movement of the corporate bonds for the year ended December 31, 2017 is set out below:

	USD'000
Balance at December 31, 2014	491,579
Interest charged	22,253
Interest payable recognized	(20,625)
Balance at December 31, 2015	493,207
Interest charged	22,327
Interest payable recognized	(20,625)
Balance at December 31, 2016	494,909
Interest charged	22,405
Interest payable recognized	(20,625)
Balance at December 31, 2017	496,689

34. Medium-term notes

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On June 7 and June 8, 2016, the Company issued the three- year medium-term notes of RMB1,500.0 million (approximately US\$226.2 million) through National Association of Financial Market Institutional Investors (“NAFMII”). The medium-term notes carry a coupon interest rate of 3.35% per annum with interest due annually on June 8, 2017, June 8, 2018 and June 10, 2019. As at the date of issue, the net book value of the liabilities of medium-term notes amounted to RMB1,485.2 million (approximately US\$223.9 million).

	USD'000
Principal amount	226,162
Transaction cost	(2,226)
Notes payable as at the date of issue	223,936

The movement of the medium-term notes for the period ended December 31, 2017 is set out below:

	USD'000
As at the date of issue	223,936
Interest charged during	4,625
Interest payable recognized	(4,225)
Foreign exchange gain	(9,834)
Balance at December 31, 2016	214,502
Interest charged during	8,185
Interest payable recognized	(7,450)
Foreign exchange gain	13,246
Balance at December 31, 2017	228,483



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## 35. Other financial liabilities

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
At fair value			
Non-current			
Derivatives			
Cross currency swap contracts — cash flow hedges	1,919	74,170	—
Current			
Derivatives			
Cross currency swap contracts — cash flow hedges	742	6,348	—
Cross currency swap contracts	—	—	1,459
Foreign currency forward contracts	2	—	—
	744	6,348	1,459
	2,663	80,518	1,459

Please refer to Note 40 for more details.

## 36. Other liabilities

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Non-current			
Bonus accrued	—	—	48,000
Defined benefit obligation(1)	28,162	24,213	—
Contingent Consideration(3)	12,549	—	—
Others – non-current(2)	59,106	13,284	17,761
	99,817	37,497	65,761
Current			
Others – current(2)	40,627	—	—
	140,444	37,497	65,761

## (1) Defined Benefit Plan

Trattamento di Fine Rapporto (“TFR”) relates to the amounts that employees in Italy are entitled to receive when they leave the Group and is calculated based on the period of employment and the taxable earnings of each employee. Under certain conditions, the entitlement may be partially advanced to an employee during the employee’s working life.

Under the amendments of the Italian legislation in the first half of 2007, companies with at least 50 employees are obliged to transfer the TFR to the “Treasury Fund” managed by the Italian state-owned social security body (“INPS”) or to supplementary pension funds. Prior to the amendments, accruing TFR for employees of all Italian companies could be managed by the Group itself.



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Consequently, the Italian companies' obligation to INPS and the contributions to supplementary pension funds take the form, under IAS 19 revised, of "Defined contribution plans" whereas the amounts recorded in the TFR liability retain the nature of "Defined benefit plans". Accordingly, TFR liability consists of the residual obligation for TFR until December 31, 2006. This is an unfunded defined benefit plan as the benefits have already been almost entirely earned, with the sole exception of future revaluations. Since 2007 the scheme has been classified as a defined contribution plan, and the companies under IFRS recognize the associated cost, being the required contributions to the pension funds, over the period in which the employee renders service.

The Group operates defined benefit plans in Italy under broadly similar regulatory frameworks, which is an unfunded plan where the Group meets the benefit payment obligation as it falls due. The level of benefits provided depends on members' length of service and their salary in the final years leading up to retirement. The TFR in payment is generally updated in line with the retail price index.

The amounts recognized in the statement of financial position and the movements in the net defined benefit obligation over the year are as follows:

	USD'000
As at August 1, 2016	27,569
Interest expense recognized in profit or loss	87
Actuarial gains recognized in other comprehensive income	(1,520)
Exchange differences	(1,875)
Contribution to employees	(48)
Balance at December 31, 2016	24,213
Interest expense recognized in profit or loss	376
Actuarial losses recognized in other comprehensive income	436
Exchange differences	3,455
Contribution to employees	(318)
Balance at December 31, 2017	28,162

The significant actuarial assumptions were as follows:

	12/31/17		12/31/16	
Discount rate (%)	1.18	%	1.37	%
Inflation rate (%)	1.50	%	1.50	%
Salary growth rate (%)	1.50	%	1.50	%
Labor turnover rate (%)	2.65	%	2.65	%
Probability of request of advances of TFR (%)	1.50	%	1.50	%
Percentage required in case of advance (%)	70.00	%	70.00	%

	12/31/17	12/31/16
Number of employees with TFR	1,485	1,421
Average age (years)	47	46

Average seniority (years)	20	20
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The sensitivity analysis of the defined benefit obligation was as follows:

	12/31/17		12/31/16	
Discount rate (+0.5%)	-5.85	%	-6.05	%
Discount rate (-0.5%)	6.38	%	6.61	%
Rate of payments increases (+20%)	-0.65	%	-0.57	%
Rate of payments decreases (-20%)	0.71	%	0.63	%
Rate of price inflation increases (+0.5%)	3.80	%	3.94	%
Rate of price inflation decreases (-0.5%)	-3.72	%	-3.86	%
Rate of salary increases (+0.5%)	0.00	%	0.00	%
Rate of salary decreases (-0.5%)	0.00	%	0.00	%
Increase the retirement age (+1 year)	0.49	%	0.38	%
Decrease the retirement age (-1 year)	-0.52	%	-0.40	%
Increase longevity (+1 year)	0.00	%	0.00	%
Decrease longevity (-1 year)	0.00	%	0.00	%

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions the same method (present value of the defined benefit obligation calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the defined benefit liability recognized in the statement of financial position.

## (2) Others

Others including the non-current and current portion of long-term payables for the new purchased tangible and intangible assets were classified into the non-current and current liabilities respectively amounted at to US\$57.5 million and US\$40.6 million as of December 31, 2017.

## (3) Contingent consideration

The group had contingent consideration in respect of a potential cash compensation accrued at about US\$12.5 million in 2017 that may be incurred depending on the profit of Changjiang Xinke during the three years of 2017, 2018 and 2019. The potential cash compensation was deemed as the terms of the supplemental agreement entered by Siltech Shanghai and JCET on December 9, 2016 and the transaction under this agreement was completed in 2017.

## 37. Trade and other payables

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Trade payables	837,843	781,161	885,438
Advance receipts from customers	65,044	60,157	72,865
Deposit received	54,895	41,324	47,468
Other payable	92,678	57,911	41,995
	1,050,460	940,553	1,047,766

Trade payables are non-interest bearing and are normally settled on 30-day to 60-day terms.

As of December 31, 2017, 2016 and 2015, trade payables were US\$837.8 million, US\$781.2 million and US\$885.4 million, within which the payables for property, plant and equipment were US\$506.7 million, US\$483.0 million and US\$660.7 million, respectively.

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The following is an aged analysis of accounts payable presented based on the invoice date at the end of the reporting period.

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Within 30 days	658,804	630,896	788,936
Between 31 to 60 days	68,358	43,984	36,596
Over 60 days	110,681	106,281	59,906
	837,843	781,161	885,438

An aged analysis of the accounts payable presented based on the due date at the end of the reporting period is as follows:

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Current	705,835	659,094	814,553
Overdue:			
Within 30 days	46,318	55,394	24,554
Between 31 to 60 days	22,052	7,658	10,458
Over 60 days	63,638	59,015	35,873
	837,843	781,161	885,438

## 38. Accrued liabilities

The amounts of accrued liabilities as of December 31, 2017, 2016 and 2015 were US\$180.9 million, US\$230.5 million and US\$132.5 million, within which the amounts of accrued payroll expenses were US\$116.7 million, US\$163.6 million and US\$71.5 million, respectively.

## 39. Share-based payments

## Stock incentive plans

The Company's stock incentive plans allow the Company to offer a variety of incentive awards to employees, consultants or external service advisors of the Group.

## Stock option plan

The options are granted at the fair market value of the Company's ordinary shares and expire 10 years from the date of grant and vest over a requisite service period of four years.

The fair value of each option granted is estimated on the date of grant using the Black-Scholes option pricing model, taking into account the terms and conditions upon which the share options were granted.

Restricted share units (“RSUs”)

The Company adopted the Equity Incentive Plan (“EIP”) whereby the Company provided additional incentives to the Group’s employees, directors and external consultants through the issuance of restricted shares, RSUs and stock appreciation rights to the participants at the discretion of the Board of Directors. The RSUs vest over a requisite service period of 4 years and expire 10 years from the date of grant.

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The fair value of each RSU granted is estimated on the date of grant using the Black-Scholes option pricing model, taking into account the terms and conditions upon which the instruments were granted.

## Share option plan for subsidiaries (“Subsidiary Plan”)

The options granted under the Subsidiary Plan shall entitle a participant of the Subsidiary Plan to purchase a specified number of subsidiary shares during a specified period at the price fixed by the relevant subsidiary committee at the time of grant or by a method specified by the relevant subsidiary committee at the time of grant and expire 10 years from the date of grant. The options vest over a requisite service period of four years.

The fair value of each option granted is estimated on the date of grant using the Black-Scholes option pricing model, taking into account the terms and conditions upon which the share options were granted.

The expense recognized for employee services received during the year is shown in the following table:

	Year ended 12/31/17 USD’000	Year ended 12/31/16 USD’000	Year ended 12/31/15 USD’000
Expense arising from equity-settled share-based payment transactions	18,214	14,210	18,329

## Movements during the year

(i) The following table illustrates the number and weighted average exercise prices (“WAEP”) of, and movements in, share options during the year (excluding Restricted Share Units (“RSUs”) and share option plan for subsidiaries (“Subsidiary Plan”)):

	2017 Number	2017 WAEP	2016 Number*	2016 WAEP*	2015 Number*	2015 WAEP*
Outstanding at January 1	72,482,764	US\$ 0.82	100,295,578	US\$ 0.82	116,362,727	US\$ 0.84
Granted during the period	6,071,477	US\$ 1.14	2,076,652	US\$ 0.92	5,656,526	US\$ 1.02
Forfeited and expired during the period	(3,842,461)	US\$ 1.33	(6,430,431)	US\$ 1.16	(8,792,890)	US\$ 1.37
Exercised during the period	(21,830,502)	US\$ 0.78	(23,459,035)	US\$ 0.75	(12,930,785)	US\$ 0.67
Outstanding at December 31	52,881,278	US\$ 0.83	72,482,764	US\$ 0.82	100,295,578	US\$ 0.82
Exercisable at December 31	39,511,002	US\$ 0.78	50,708,535	US\$ 0.77	51,319,799	US\$ 0.80

As at December 31, 2017, the 39,511,002 outstanding share options were exercisable (December 31, 2016: 50,708,535\* and December 31 2015: 51,319,799\*).

The weighted average remaining contractual life for the share options outstanding as at December 31, 2017 was 5.21 years (2016: 5.29 years and 2015: 6.04 years).

The range of exercise prices for options outstanding at the end of the year was from US\$0.23 to US\$1.38 (2016: from US\$0.23\* to US\$1.48\* and 2015: from US\$0.23\* to US\$1.52\*).

The weighted average closing price of the Company's shares immediately before the dates while the share options were exercised was US\$1.44 (2016: US\$1.24\* and 2015: US\$1.07\*).

During the year ended December 31, 2017, share options were granted on April 5, 2017, May 22, 2017 and September 7, 2017. The fair values of the options determined at the dates of grant

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using the Black-Scholes Option Pricing model were US\$0.56, US\$0.42 and US\$0.40, respectively.

During the year ended December 31, 2016, share options were granted on May 25, 2016, September 12, 2016 and November 18, 2016. The fair values of the options determined at the dates of grant using the Black-Scholes Option Pricing model were US\$0.36\*, US\$0.42\* and US\$0.52\*, respectively.

During the year ended December 31, 2015, share options were granted on February 24, 2015, May 20, 2015 and September 11, 2015. The fair values of the options determined at the dates of grant using the Black-Scholes Option Pricing model were US\$0.36\*, US\$0.44\* and US\$0.54\*, respectively.

The following table list the inputs to the Black Scholes Pricing models used for the option granted during the years ended December 31, 2017, 2016 and 2015 respectively:

	2017		2016		2015	
Dividend yield (%)	—		—		—	
Expected volatility	42.80	%	44.80	%	46.13	%
Risk-free interest rate	1.84	%	1.39	%	1.61	%
Expected life of share options	6 years		6 years		6 years	

The risk-free rate for periods within the contractual life of the option is based on the yield of the US Treasury Bond. The expected term of options granted represents the period of time that options granted are expected to be outstanding. Expected volatilities are based on the average volatility of the Company's stock prices with the time period commensurate with the expected term of the options. The dividend yield is based on the Company's intended future dividend plan.

The valuation of the options are based on the best estimates from Company by taking into account a number of assumptions and is subject to limitation of the valuation model. Changes in variables and assumptions may affect the fair value of these options.

\* The number, price and fair value of share options for the prior years have been adjusted to reflect the impact of the share consolidation, on the basis that every ten ordinary shares and preferred shares of US\$0.0004 each consolidated into one ordinary share and preferred share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016.

(ii) The following table illustrates the number and weighted average fair value ("WAFV") of, and movements in, RSUs during the year (excluding stock option plan and Subsidiary Plan):

	2017		2017		2016		2016		2015		2015
	Number		WAFV		Number*		WAFV*		Number*		WAFV*
Outstanding at January 1	26,489,152		US\$ 0.98		30,451,268		US\$ 0.99		27,405,767		US\$ 0.87
Granted during the period	14,055,477		US\$ 1.11		8,738,247		US\$ 0.86		14,685,298		US\$ 1.06
Forfeited during the period	(950,412)		US\$ 1.04		(1,124,847)		US\$ 0.98		(1,342,168)		US\$ 0.96
Exercised during the period	(10,893,120)		US\$ 0.97		(11,575,516)		US\$ 0.91		(10,297,629)		US\$ 0.79
	28,701,097		US\$ 1.05		26,489,152		US\$ 0.98		30,451,268		US\$ 0.99

Outstanding at  
December 31,

As at December 31, 2017, the number of outstanding RSUs granted 28,701,097 (December 31, 2016: 26,489,152\* and December 31, 2015: 30,451,268\*).

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The weighted average remaining contractual life for the RSUs outstanding as at December 31, 2017 was 8.51 years (2016: 8.37 years and 2015: 8.69 years).

The weighted average closing price of the Company's shares immediately before the dates on which the RSUs were exercised was US\$1.29 (2016: US\$0.83\* and 2015: US\$0.94\*).

During the year ended December 31, 2017, RSUs were granted on April 5, 2017, May 22, 2017, September 7, 2017 and December 7, 2017. The fair values of the RSUs determined at the dates of grant using the Black-Scholes Option Pricing model were US\$1.24, US\$1.09 US\$1.01, and US\$1.31 respectively.

During the year ended December 31, 2016, RSUs were granted on May 25, 2016, September 12, 2016 and November 18, 2016. The fair values of the RSUs determined at the dates of grant using the Black-Scholes Option Pricing model were US\$0.82\*, US\$1.11\* and US\$1.39\* respectively.

During the year ended December 31, 2015, RSUs were granted on May 20, 2015, September 11, 2015 and November 23, 2015. The fair values of the RSUs determined at the dates of grant using the Black-Scholes Option Pricing model were US\$1.07\*, US\$0.89\* and US\$1.11\* respectively.

The following table list the inputs to the models used for the plans for the years ended December 31, 2017, 2016 and 2015, respectively:

	2017		2016		2015	
Dividend yield (%)	—		—		—	
Expected volatility	39.45	%	39.66	%	37.07	%
Risk-free interest rate	1.24	%	0.9	%	0.60	%
Expected life of share options	2 years		2 years		2 years	

The risk-free rate for periods within the contractual life of the RSUs is based on the yield of the US Treasury Bond. The expected term of RSUs granted represents the period of time that RSUs granted are expected to be outstanding. Expected volatilities are based on the average volatility of the Company's stock prices with the time period commensurate with the expected term of the RSUs. The dividend yield is based on the Company's intended future dividend plan.

The valuation of the RSUs is based on the best estimates from Company by taking into account a number of assumptions and is subject to limitation of the valuation model. Changes in variables and assumptions may affect the fair value of these RSUs.

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\* The number and fair value of RSUs for the prior years have been adjusted to reflect the impact of the share consolidation, on the basis that every ten ordinary shares and preferred shares of US\$0.0004 each consolidated into one ordinary share and preferred share of US\$0.004 each, which was accounted for as a reverse stock split effective on December 7, 2016.

(iii) The following table illustrates the number and weighted average exercise prices ("WAEP") of, and movements in, share options of the Subsidiary Plan during the year (excluding stock option plan and RSUs):



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	2017 Number	2017 WAEP	2016 Number	2016 WAEP	2015 Number	2015 WAEP
Outstanding at January 1	14,598,750	US\$ 0.19	7,000,000	US\$ 0.06	—	—
Granted during the year	1,598,750	US\$ 0.31	7,698,750	US\$ 0.31	8,330,000	US\$ 0.06
Forfeited and expired during the year	(934,948)	US\$ 0.05	(100,000)	US\$ 0.05	(1,192,500)	US\$ 0.06
Exercised during the year	(343,750)	US\$ 0.25	—	—	(137,500)	US\$ 0.05
Outstanding at December 31,	14,918,802	US\$ 0.20	14,598,750	US\$ 0.19	7,000,000	US\$ 0.06
Exercisable at December 31,	7,079,401	US\$ 0.15	3,297,135	US\$ 0.07	689,479	US\$ 0.05

The weighted average remaining contractual life for the share options outstanding as at December 31, 2017 was 8.3 years (2016: 9.2 years and 2015: 9.1 years).

The range of exercise prices for options outstanding at the end of the year was from US\$0.05 to US\$0.31 (2016: from US\$0.05 to US\$0.31 and 2015: from US\$0.05 to US\$0.08).

During the year ended December 31, 2017, share options of the Subsidiary Plan were granted on August 9, 2017. The fair values of the options of the Subsidiary Plan determined at the dates of grant using the Black-Scholes Option Pricing model were US\$0.11.

During the year ended December 31, 2016, share options of the Subsidiary Plan were granted on December 27, 2016. The fair values of the options of the Subsidiary Plan determined at the dates of grant using the Black-Scholes Option Pricing model were US\$0.14.

During the year ended December 31, 2015, share options of the Subsidiary Plan were granted on January 1, 2015, May 4, 2015 and September 15, 2015. The fair values of the options of the Subsidiary Plan determined at the dates of grant using the Black-Scholes Option Pricing model were US\$0.069, US\$0.069 and US\$0.099, respectively.

The following table list the inputs to the Black Scholes Pricing models used for the option of the Subsidiary Plan granted during the years ended December 31, 2017:

	2017	2016	2015
Dividend yield (%)	—	—	—
Expected volatility	32.0 %	41.5 %	36.0 %
Risk-free interest rate	1.90 %	2.10 %	1.01 %
Expected life of share options	6 years	6 years	3 years

The risk-free rate for periods within the contractual life of the option of the Subsidiary Plan is based on the yield of the US Treasury Bond. The expected term of options of the Subsidiary Plan granted represents the period of time that options of the Subsidiary Plan granted are expected to be outstanding. Expected volatilities are based on the average volatility of the relevant subsidiary's set of public comparables with the time period commensurate with the expected term of the options. The dividend yield is based on the relevant subsidiary's intended future dividend plan.

The valuation of the options of the Subsidiary Plan are based on the best estimates from the relevant subsidiary by taking into account a number of assumptions and is subject to limitation of the valuation model. Changes in variables and assumptions may affect the fair value of these options.

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## 40. Financial instruments

## Capital management

The Group manages its capital to ensure that entities in the Group will be able to continue as going concerns while maximizing the return to stakeholders through the optimization of the capital structure.

The capital structure of the Group consists of net debt (debt as detailed in Note 31, Note 32, Note 33 and Note 34 offset by cash and cash equivalent) and equity of the Group.

Where the entity manages its capital through issuing/repurchasing shares and raising/repayment of debts. The Group reviews the capital structure on a semi-annual basis. As part of this review, the Group considers the cost of capital and the risks associates with each class of capital. The Group will balance its overall capital structure through the payment of dividends, new share issues and share buy-backs as well as the issue of new debt or the redemption of existing debt.

## Gearing ratio

The gearing ratio at end of the reporting period was as follows.

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Debt*	3,313,048	3,025,283	1,414,943
Cash and cash equivalent	(1,838,300)	(2,126,011)	(1,005,201)
Other financial assets - current	(683,812)	(31,543)	(282,880)
Net debt	790,936	867,729	126,862
Equity	6,721,335	5,403,227	4,190,255
Net debt to equity ratio	11.8	% 16.1	% 1.3

\* Debt is defined as long-term and short-term borrowings (excluding derivatives), convertible bonds, short-term and medium-term notes, and bonds payables as described in Note 31, Note 32, Note 33 and Note 34.

## Financial risk management objectives

The Group's corporate treasury function co-ordinates access to domestic and international financial markets, monitors and manages the financial risks relating to the operations of the Group through internal risk reports which analyze exposures by degree and magnitude of risks. These risks include market risk including currency risk, interest rate risk and other price risk, credit risk and liquidity risk.

The Group seeks to minimize the effects of these risks by using derivative financial instruments to hedge risk exposures. The use of financial derivatives is governed by the Group's policies approved by the board of directors, which provide written principles on foreign exchange risk, interest rate risk, credit risk, the use of financial derivatives and non-derivative financial instruments, and the investment of excess liquidity. Compliance with policies and exposure limits is reviewed on continuous basis. The Group does not enter into or trade financial instruments, including derivative financial instruments, for speculative purposes.

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## Market risk

The Group's activities expose it primarily to the financial risks of changes in foreign currency exchange rates and interest rates. The Group enters into a variety of derivative financial instruments to manage its exposure to foreign currency risk and interest rate risk, including:

- forward foreign exchange contracts to hedge the exchange rate risk arising on the import from suppliers;
- interest rate swaps to mitigate the risk of rising interest rates; and
- cross-currency interest rate swap contracts to protect against volatility of future cash flows caused by the changes in both interest rates and exchange rates associated with outstanding long-term debt denominated in a currency other than the US dollar.

Market risk exposures are measured using the sensitivity analysis and the analysis in the following sections relate to the position as at December 31, 2017, 2016 and 2015.

There has been no change to the Group's exposure to market risks or the manner in which these risks are managed and measured.

## Foreign currency risk management

The Group undertakes transactions denominated in foreign currencies, consequently, exposures to exchange rate fluctuations arise. Exchange rate exposures are managed within approved policy parameters utilizing forward foreign exchange contracts.

The carrying amounts of the Group's foreign currency denominated monetary assets and monetary liabilities at the end of the reporting period are as follows:

	Liabilities			Assets		
	12/31/17	12/31/16	12/31/15	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
EUR	125,171	112,827	76,462	72,181	39,619	33,968
JPY	30,422	41,976	5,553	29,245	35,237	2,986
RMB	2,410,284	2,714,492	586,931	1,765,846	1,633,433	909,497
Others	43,824	27,083	14,127	8,688	3,860	2,529

## Foreign currency sensitivity analysis

The Group is mainly exposed to the currency of RMB, Japanese Yen ("JPY") and Euros ("EUR").

The following table details the Group's sensitivity to a 5% increase in the foreign currencies against USD. 5% represents management's assessment of the reasonably possible change in foreign exchange rates. The sensitivity analysis includes only outstanding foreign currency denominated monetary items and adjusts their translation at the period end for a 5% change in foreign currency

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rates. For a 5% decrease of the foreign currency against USD, there would be an equal and opposite impact on the profit or equity below predicted.

			JPY		RMB				Others	
	2016	2015	2017	2016	2015	2017	2016	2015	2017	2016
'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
0)	(3,660)	(2,125)	(62)	(355)	(128)	(33,918)	(6,611)	16,128	(1,848)	(1,222)
0)	(3,660)	(2,125)	(62)	(355)	(128)	(33,918)	(6,611)	16,128	(1,848)	(1,222)

## Forward foreign exchange contracts

It is the policy of the Group to enter into forward foreign exchange contracts to cover specific foreign currency payments and receipts within the exposure generated. The Group also enters into forward foreign exchange contracts to manage the foreign currency exposure from purchases/sales and financing activities.

The following table details the forward foreign currency ("FC") contracts outstanding at the end of the reporting period:

## Outstanding contracts

Exchange rate	Foreign currency		Notional value			Net Fair value assets				
	12/31/16	12/31/15	12/31/17	12/31/16	12/31/15	12/31/17	12/31/16			
			FC'000	FC'000	FC'000	USD'000	USD'000	USD'000	USD'000	USD'000
9	—	1.0895	2,080	—	39,192	2,500	—	42,872	(2)	—
2	—	—	648,364	—	—	95,881	—	—	2,111	—
						98,381	—	42,872	2,109	—

The Group does not enter into foreign currency exchange contracts for speculative purposes.

## Cross currency swap contracts

It is the policy of the Group to enter into cross currency swap contracts to protect against volatility of future cash flows caused by the changes in exchange rates associated with outstanding debt denominated in a currency other than the US dollar.

In 2017, 2016 and 2015, the Group entered into or issued several RMB denominated loan facility agreements, short-term notes and medium-term notes (the "RMB Debts") in the aggregate principal amount of RMB3,714.0 million

(approximately US\$568.4 million), RMB5,447.0 million (approximately US\$785.2 million) and RMB480.0 million (approximately US\$74.0 million), respectively. The Group was primarily exposed to changes in the exchange rate for the RMB. To minimize the currency risk, the Group entered into cross currency swap contracts with a contract term fully matching the repayment schedule of the whole part of these RMB Debts to protect against the adverse effect of exchange rate fluctuations arising from the RMB Debts. As of December 31, 2017, the Group had outstanding cross currency swap contracts with notional amounts of RMB6,398.0 million (approximately US\$979.2 million) (as of December 31, 2016: US\$854.4 million and 2015: US\$74.0 million).

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The cross currency swap contracts were designated as hedging instrument of cash flow hedges since October 2016. Any gains or losses arising from changes in fair value of cross currency swap contracts are taken directly to the statement of profit or loss, except for the effective portion of cash flow hedges, which is recognized in other comprehensive income and later reclassified to profit or loss when the hedged item affects profit or loss.

During the year, US\$2.2 million gain of fair value change of cross currency swap was recognized in other gains or losses, net (Note 9, 2016: US\$15.0 million loss and 2015: US\$1.5 million loss). The following foreign-exchange related amounts of cash flow hedges were recognized in profit or loss and other comprehensive income or loss:

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000
Total fair value gain (loss) included in other comprehensive income (loss)	95,185	(66,861)
Reclassified from other comprehensive income (loss) to offset foreign exchange gains or losses	(60,042)	32,234
Other comprehensive income (losses) on cash flow hedges recognized during the year	35,143	(34,627)

The following table details the cross currency swap contracts outstanding at the end of the reporting period:

## Outstanding contracts

	Average exchange rate			Foreign currency			Notional value		
	12/31/17	12/31/16	12/31/15	12/31/17 FC'000	12/31/16 FC'000	12/31/15 FC'000	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Buy RMB 3 months to 1 year	6.6369	6.6592	—	1,040,000	787,000	—	159,163	113,450	—
1 year to 5 years	6.6356	6.5830	6.4360	5,358,000	5,140,000	480,000	819,993 979,156	740,954 854,404	73,960 73,960

The Group does not enter into cross currency swap contracts for speculative purposes.

## Interest rate risk management

The Group is exposed to interest rate risk relates primarily to the Group's long-term debt obligations, which the Group generally assumes to fund capital expenditures and working capital requirements. The risk is managed by the Group by maintaining an appropriate mix between fixed and floating rate borrowings, and by the use of interest rate swap contracts and cross currency swap contracts.

The Group's exposures to interest rates on financial assets and financial liabilities are detailed in the liquidity risk management section of this note.

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### Interest rate sensitivity analysis

The sensitivity analyses below have been determined based on the exposure to interest rates for both derivatives and non-derivative instruments at the end of the reporting period. For floating rate liabilities, the analysis is prepared assuming the amount of the liability outstanding at the end of the reporting period was outstanding for the whole year.

A 10 basis point increase or decrease represents management's assessment of the reasonably possible change in interest rates. If interest rates had been 10 basis points higher and all other variables were held constant, the Group's profit for the year ended December 31, 2017 would increase by US\$0.4 million (2016: profit decrease by US\$0.5 million and 2015: profit decrease by US\$0.4 million). This is mainly attributable to the Group's exposure to interest rates on its variable rate borrowings.

### Credit risk management

Credit risk refers to the risk that counterparty will default on its contractual obligations resulting in financial loss to the Group. The Group is mainly exposed to credit risk from trade and other receivables and deposits with banks and financial institutions.

Customer credit risk is managed by each business unit subject to the Group's established policy, procedures and control relating to customer credit risk management. It is the Group's policy that all customers who wish to trade on credit terms are subject to credit verification procedures and is offered credit terms only with the approval from Finance and Sales Division. Credit quality of a customer is assessed using publicly available financial information and its own trading records to rate its major customers. The Group's exposure and credit ratings of its counterparties are continuously monitored. In addition, receivable balances are monitored on an ongoing basis with the result that the Group's exposure to bad debts is not significant.

Trade receivables consist of a large number of customers, spread across diverse industries and geographical areas.

Apart from Customers A, B, C and D, four largest customers of the Group, the Group does not have significant credit risk exposure to any single counterparty or any group of counterparties having similar characteristics. The Group defines counterparties as having similar characteristics if they are related entities. Concentration of credit risk related to Customers A, B, C and D did not exceed 5%, 4%, 1% and 1% respectively of gross monetary assets at the end of current year. Concentration of credit risk to any other counterparty did not exceed 1% of gross monetary assets at the end of current year.

Net revenue and accounts receivable for customers which accounted for 5% or more of the Group's net sales and gross accounts receivable is disclosed in Note 6.

The credit risk on liquid funds and derivative financial instruments is limited because the counterparties are banks with high credit-ratings.

### Liquidity risk management

The Group manages liquidity risk by maintaining adequate cash reserves, banking facilities and reserve borrowing facilities, by continuously monitoring forecast and actual cash flows, and by matching the maturity profiles of financial assets and liabilities.





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## Liquidity and interest risk tables

The following tables detail the Group's remaining contractual maturity for its non-derivative financial liabilities with agreed repayment periods. The tables have been drawn up based on the undiscounted cash flows of financial liabilities based on the earliest date on which the Group can be required to pay. The tables include both interest and principal cash flows. To the extent that interest flows are floating rate, the undiscounted amount is derived from interest rate curves at the end of the reporting period. The contractual maturity is based on the earliest date on which the Group may be required to pay.

		Weighted average effective interest rate %		Less than 3 months USD'000	3 months to 1 year USD'000	1–5 years USD'000	5+years USD'000	Total USD'000
December 31, 2017								
Interest-bearing								
bank and	Fixed	3.20	%	140,338	24,757	313,497	338,632	817,224
other borrowings	Floating	2.36	%	16,712	87,753	958,367	307,003	1,369,835
Convertible bonds		3.79	%	—	—	442,500	—	442,500
Bonds payable		4.52	%	—	—	500,000	—	500,000
Medium-term notes		3.70	%	—	—	226,162	—	226,162
Finance lease payables		3.68	%	434	1,308	4,935	—	6,677
Trade and other payables				880,795	5,492	161,169	3,004	1,050,460
Contingent consideration				—	—	12,549	—	12,549
				1,038,279	119,310	2,619,179	648,639	4,425,407
December 31, 2016								
Interest-bearing								
bank and	Fixed	2.50	%	130,728	6,729	131,474	384,382	653,313
other borrowings	Floating	2.62	%	6,039	67,347	785,059	4,781	863,226
Convertible bonds		2.78%–3.79	%	393,200	—	450,000	—	843,200
Bonds payable		4.52	%	—	—	500,000	—	500,000
Medium-term notes		3.70	%	—	—	226,162	—	226,162
Short-term notes		2.99	%	—	90,465	—	—	90,465
Finance lease payables		3.68	%	382	1,147	6,118	—	7,647
Trade and other payables				915,840	1,353	21,706	1,654	940,553

1,446,189    167,041    2,120,519    390,817    4,124,566

		Weighted average effective interest rate %		Less than 3 months USD'000	3 months to 1 year USD'000	1-5 years USD'000	5+ years USD'000	Total USD'000
December 31, 2015								
Interest-bearing bank and other borrowings	Fixed	1.69	%	42,963	—	149,253	238,831	431,047
	Floating	4.98	%	—	71,944	158,744	—	230,688
Convertible bonds		2.78%–3.79 %		—	404,000	—	—	404,000
Bonds payable		4.52	%	—	—	500,000	—	500,000
Trade and other payables				920,426	28,508	5,350	93,482	1,047,766
				963,389	504,452	813,347	332,313	2,613,501

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The following table details the Group's expected maturity for its non-derivative financial assets. The table has been drawn up based on the undiscounted contractual maturities of the financial assets including interest that will be earned on those assets. The inclusion of information on non- derivative financial assets is necessary in order to understand the Group's liquidity risk management as the liquidity is managed on a net asset and liability basis.

	Weighted average effective interest rate %	Less than 3 months USD'000	3 months to 1 year USD'000	1-5 years USD'000	5+ years USD'000	Total USD'000
December 31, 2017						
Trade and other receivables		616,308	—	—	—	616,308
Cash and cash equivalent, restricted cash & short-term investments*	1.25	% 2,231,089	276,723	116,282	—	2,624,094
Available for sale financial assets		—	—	—	24,844	24,844
		2,847,397	276,723	116,282	24,844	3,265,246
December 31, 2016						
Trade and other receivables		645,822	—	—	—	645,822
Cash and cash equivalent, restricted cash & short-term investments*	1.19	% 2,000,717	480,379	21,125	—	2,502,221
Available for sale financial assets		—	—	—	21,966	21,966
		2,646,539	480,379	21,125	21,966	3,170,009
December 31, 2015						
Trade and other receivables		499,846	—	—	—	499,846
Cash and cash equivalent, restricted cash & short-term investments*	2.12	% 1,549,692	45,038	—	—	1,594,730
		—	—	—	19,750	19,750

Available for sale financial  
assets

2,049,538	45,038	—	19,750	2,114,326
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The amounts included above for variable interest rate instruments for both non-derivative financial assets and liabilities is subject to change if changes in variable interest rates differ to those estimates of interest rates determined at the end of the reporting period.

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\* The above restricted cash exclude the cash received from government funds.

The Group has access to short-term financing facilities as described in below section, of which US\$1,810.2 million were unused at the end of the reporting period (2016: US\$1,873.8 million and 2015: US\$1,351.7 million). The Group expects to meet its other obligations from operating cash flows and proceeds of maturing financial assets.

The following table details the Group's liquidity analysis for its derivative financial instruments. The table has been drawn up based on the undiscounted contractual net cash inflows and outflows on derivative instruments that settle on a net basis, and the undiscounted gross inflows and outflows on those derivatives that require gross settlement. When the amount payable or receivable is not fixed,

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the amount disclosed has been determined by reference to the projected interest rates as illustrated by the yield curves at the end of the reporting period.

	Less than 3 months USD'000	3 months to 1 year USD'000	1–5 years USD'000	above 5 years USD'000	Total USD'000
December 31, 2017					
Gross settled:					
Cross currency swap contracts— cash flow hedges					
— inflows	—	37,703	512,067	—	549,770
— (outflows)	—	(34,254)	(480,984)	—	(515,238)
Net settled:					
Cross currency swap contracts— cash flow hedges					
— net inflows	—	2,854	20,730	—	23,584
	—	6,303	51,813	—	58,116

	Less than 3 months USD'000	3 months to 1 year USD'000	1–5 years USD'000	above 5 years USD'000	Total USD'000
December 31, 2016					
Gross settled:					
Cross currency swap contracts— cash flow hedges					
— inflows	—	71,120	403,265	—	474,385
— (outflows)	—	(72,872)	(396,332)	—	(469,204)
Net settled:					
Cross currency swap contracts— cash flow hedges					
— net outflows	—	(1,355)	(1,475)	—	(2,830)
	—	(3,107)	5,458	—	2,351

	Less than 3 months USD'000	3 months to 1 year USD'000	1–5 years USD'000	above 5 years USD'000	Total USD'000
December 31, 2015					
Net settled:					
Cross currency swap contracts					
— net inflows	—	—	4,381	—	4,381
	—	—	4,381	—	4,381

Fair value of financial instruments

Fair value of financial instruments carried at amortized cost

The Group considers that the carrying amounts of financial assets and financial liabilities recognized in the consolidated financial statements approximate their fair values.

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Valuation techniques and assumptions applied for the purposes of measuring fair value

The fair values of financial assets and financial liabilities are determined as follows:

- the fair value of financial instruments based on quoted market prices in active markets, valuation techniques that use observable market-based inputs or unobservable inputs that are corroborated by market data. Pricing information that the Group obtains from third parties is internally validated for reasonableness prior to use in the consolidated financial statements. When observable market prices are not readily available, the Group generally estimates the fair value using valuation techniques that rely on alternate market data or inputs that are generally less readily observable from objective sources and are estimated based on pertinent information available at the time of the applicable reporting periods. In certain cases, fair values are not subject to precise quantification or verification and may fluctuate as economic and market factors vary and the Group's evaluation of those factors changes.

Fair value measurements recognized in the consolidated statement of financial position

The following tables provide an analysis of financial instruments that are measured at fair value on a recurring basis subsequent to initial recognition, grouped into Levels 1 to 3 based on the degree to which the fair value is observable. There is no transfer within different levels of the fair value hierarchy in the year ended December 31, 2017, 2016 and 2015:

- Level 1 fair value measurements are those derived from quoted prices (unadjusted) in active market for identical assets or liabilities;
- Level 2 fair value measurements are those derived from inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices), and

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- Level 3 fair value measurements are those derived from valuation techniques that include inputs for the asset or liability that are not based on observable market data (unobservable inputs).

	Valuation technique(s) and key input	12/31/17			Total USD'000
		Level 1 USD'000	Level 2 USD'000	Level 3 USD'000	
Financial assets at fair value					
Short-term investment carried at fair value through profit or loss	Discounted cash flow. Future cash flows are estimated based on contracted interest rates and discounted.	—	117,928	—	117,928
Available-for-sale investment	Quoted prices in active markets	2,531	—	—	2,531
Available-for-sale investment	Recent transaction price	—	—	20,134	20,134
Cross currency swap contracts classified as other financial assets in the statement of financial position — cash flow hedges	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	22,337	—	22,337
Foreign currency forward contracts classified as other financial assets in the statement of financial position	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	2,111	—	2,111
		2,531	142,376	20,134	165,041
Financial liabilities at fair value					
Cross currency swap contracts classified as other financial liabilities in the statement of financial position — cash flow hedges	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	2,661	—	2,661
Foreign currency forward contracts classified as other financial liabilities in the statement of financial position	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	2	—	2
Contingent consideration	Discounted cash flow. Future cash flows. Future cash flows are basis on management's best estimation and	—	—	12,549	12,549



discounted.		—	2,663	12,549	15,212
Valuation technique(s) and key input		12/31/16 Level 1 USD'000	Level 2 USD'000	Level 3 USD'000	Total USD'000
Financial assets at fair value					
Short-term investment carried at fair value through profit or loss	Discounted cash flow. Future cash flows are estimated based on contracted interest rates and discounted.	—	24,931	—	24,931
Available-for-sale investment	Quoted prices in active markets	4,713	—	—	4,713
Available-for-sale investment	Recent transaction price	—	—	16,067	16,067
Derivative financial instrument	Measured by Binomial Model with key assumptions including exercise multiple (75%), risk free rate of interest (1.2%), expected volatility (46.8%) and rate of return (10%).	—	—	32,894	32,894
		4,713	24,931	48,961	78,605
Financial liabilities at fair value					
Cross currency swap contracts classified as other financial liabilities in the statement of financial position — cash flow hedges	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	80,518	—	80,518
		—	80,518	—	80,518

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	Valuation technique(s) and key input	12/31/15			Total USD'000
		Level 1 USD'000	Level 2 USD'000	Level 3 USD'000	
Financial assets at fair value					
Short-term investment carried at fair value through profit or loss	Discounted cash flow. Future cash flows are estimated based on contracted interest rates and discounted.	—	257,583	—	257,583
Foreign currency forward contracts classified as other financial assets in the statement of financial position	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	172	—	172
Available-for-sale investment	Quoted prices in active markets	3,300	—	—	3,300
Available-for-sale investment	Recent transaction price	—	—	15,173	15,173
Derivative financial instrument	Measured by Binomial Model with key assumptions including exercise multiple (75%), risk free rate of interest (1.2%), expected volatility (46.8%) and rate of return (10%).	—	—	30,173	30,173
		3,300	257,755	45,346	306,401
Financial liabilities at fair value					
Cross currency swap contracts classified as other financial liabilities in the statement of financial position	Discounted cash flow. Future cash flows are estimated based on forward exchange rates (from observable forward exchange rates at the end of the reporting period) and contracted forward rates and discounted.	—	1,459	—	1,459
		—	1,459	—	1,459

## 41. Cash flow information

## Reconciliation of liabilities arising from financing activities

Net cash flows	Conversion	Foreign	Other
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	12/31/2016	in financing activities USD'000	options exercised USD'000	exchange loss USD'000	non-cash movement(1) USD'000	12/31/2017 USD'000
Short-term borrowings	176,957	127,715	—	3,639	—	308,311
Long-term borrowings	1,265,811	529,928	—	80,497	—	1,876,236
Disposals	786,611	—	(399,099)	—	15,817	403,329
Convertible bonds	494,909	—	—	—	1,780	496,689
Bonds payable	214,502	—	—	13,246	735	228,483
Medium-term notes	86,493	(87,858)	—	1,365	—	—
Currency swap contracts classified as other financial assets	—	—	—	—	(22,337)	(22,337)
Currency swap contracts classified as other financial liabilities	80,518	—	—	—	(77,857)	2,661
Balance at December 31, 2017	3,105,801	569,785	(399,099)	98,747	(81,862)	3,293,372

(1) Other non-cash movements were accrued interest expenses for bonds and notes and fair value change of currency swap contracts.

Non-cash investing activities

In 2017, the acquisition of tangible and intangible assets by means of long-term payables amounted to US\$97.6 million. Please refer to Note 36 (2) for more details.

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## 42. Business combination

On June 24, 2016, the Company, LFoundry Europe GmbH (“LFoundry Europe”) and Marsica Innovation S.p.A (“Marsica”) entered into a sale and purchase agreement pursuant to which LFoundry Europe and Marsica agreed to sell and the Company agreed to purchase 70% of the corporate capital of LFoundry for an aggregate cash consideration of EUR49 million subject to adjustment. The acquisition was completed on July 29, 2016.

The assets and liabilities recognized as of July 29, 2016 as a result of the acquisition were as follows:

	Fair value USD'000
Property, plant and equipment	113,119
Intangible assets	8,088
Restrict cash	26,042
Other assets	5,590
Total non-current assets	152,839
Inventories	29,252
Prepayment and prepaid operating expenses	2,864
Trade and other receivables	34,186
Other financial assets	111
Cash and cash equivalent	18,987
Total current assets	85,400
Total Assets	238,239
Borrowings	71,654
Deferred tax liability	15,639
Other long-term liabilities	35,354
Total non-current liabilities	122,647
Trade and other payables	37,005
Borrowings	4,904
Accrued liabilities	1,635
Total current liabilities	43,544
Total Liabilities	166,191
Total identifiable net assets at fair value	72,048
Less: non-controlling interests	(21,615)
Goodwill on acquisition	3,933
Satisfied by cash	54,366

The goodwill is attributable to the workforce and the high profitability of the acquired business. It will not be deductible for tax purposes.

An analysis of the cash flows in respect of the acquisition of a subsidiary is as follows:

	USD'000
Cash paid for acquisition	(54,366)
Other cash consideration	(37,837)
Cash and cash equivalent acquired	18,987

Net cash outflow	(73,216)
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For the purpose of business combination, the Company offered LFoundry a long-term loans, amounted to US\$37.8 million, for the repayment of LFoundry’s debts.

43. Related party transactions

The names of the related parties which had transactions with the Group for the year ended December 31, 2017 and the relationships with the Group are disclosed below:

Related party name	Relationship with the Group
Datang Telecom Technology & Industry Holdings Co., Ltd. (“Datang Holdings”)	A substantial shareholder of the Company
Datang Microelectronics Technology Co., Ltd	A member of Datang Group
Datang Semiconductor Co., Ltd.	A member of Datang Group
Leadcore Technology Co., Ltd and Leadcore Technology (Hong Kong) Co., Ltd (“Leadcore”)	A member of Datang Group
Datang Telecom Group Finance Co., Ltd (“Datang Finance”)	A member of Datang Group
China IC Fund	A substantial shareholder of the Company
Country Hill	A shareholder of the Company
Toppan	An associate of the Group
Brite Semiconductor (Shanghai) Corporation and its subsidiaries (“Brite”)	An associate of the Group
China Fortune-Tech	An associate of the Group
Zhongxin Xiecheng	An associate of the Group
Jiangsu Changjiang Electronics Technology Co., Ltd (“JCET”) and its subsidiaries	An associate of the Group
Sino IC Leasing Co., Ltd (“Sino IC Leasing”)	An associate of the Group

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## Trading transactions

During the year, group entities entered into the following trading transactions with related parties that are not members of the Group:

	Sale of goods			Sale of services		
	Year ended			Year ended		
	12/31/17	12/31/16	12/31/15	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
Datang Microelectronics Technology Co., Ltd	15,667	14,146	12,885	—	—	—
Datang Semiconductor Co., Ltd	535	464	865	—	—	—
Leadcore	3,960	3,267	8,881	—	—	—
Toppan	—	—	—	3,896	3,481	3,699
Brite	44,212	31,506	31,379	—	—	—
JCET and its subsidiaries	17	—	17	48	—	9
China Fortune-Tech	—	—	—	—	65	60

	Purchase of goods			Purchase of services		
	Year ended			Year ended		
	12/31/17	12/31/16	12/31/15	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
Toppan	11,275	8,869	7,996	59	856	3,516
Zhongxin Xiecheng	—	—	—	—	4	1,199
Brite	—	25	—	2,016	2,887	2,582
China Fortune-Tech	—	—	—	959	313	938
Datang Finance	—	—	—	—	15	—
JCET and its subsidiaries	1,778	1,097	—	620	1,189	869
Sino IC Leasing	—	—	—	51,739	—	—

The following balances were outstanding at the end of the reporting period:

	Amounts due from related parties			Amounts due to related parties		
	Year ended			Year ended		
	12/31/17	12/31/16	12/31/15	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000	USD'000	USD'000	USD'000
Datang Microelectronics Technology Co., Ltd	4,279	6,354	5,338	—	—	—
Datang Semiconductor Co., Ltd	302	—	61	—	—	—
Leadcore	—	—	1,948	—	—	3,667
Toppan	670	615	317	888	2,414	1,148
Brite	12,951	6,507	5,661	—	279	141
JCET and its subsidiaries	21	—	27	3	736	2
China Fortune-Tech	—	38	40	—	—	—

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In December 2016 and February 2017, there were two and three arrangements in consideration of US\$249.2 million and US\$250.6 million respectively, entered into by the Group with Sino IC Leasing (Tianjin) Co., Ltd. (a wholly-owned subsidiary of Sino IC Leasing) in the form of a sale and leaseback transaction with a repurchase option. A batch of production equipment of the Group was sold and leased back under the arrangements. As the repurchase prices are set at the expected fair value and the Group is not reasonably certain that it will exercise the repurchase options, the above transaction have been accounted for disposal of property, plant and equipment followed with an operating lease.

In July 2017, there were seven arrangements in total consideration of US\$410.8 million entered into by the Group with Xincheng Leasing (Tianjin) Co., Ltd, Xindian Leasing (Tianjin) Co., Ltd and Xinlu Leasing (Tianjin) Co., Ltd. (the three leasing companies are wholly-owned subsidiaries of Sino IC Leasing) respectively, in the form of a sale and leaseback transaction with a repurchase option. A batch of production equipment of the Group was sold and leased back under these arrangements. As the repurchase prices are set at the expected fair value and the Group is not reasonably certain that it will exercise the repurchase options, the above transactions have been accounted for a disposal of property, plant and equipment followed with an operating lease. The total future minimum lease payments under the lease arrangements please refer to Note 44.

On June 8, 2015, the Company issued 4,700,000,000 new ordinary shares to Xinxin (Hongkong) Capital Co., Limited, a wholly-owned subsidiary of the China IC Fund. Please refer to Note 28 for details.

On September 25, 2015, Country Hill subscribed 323,518,848 ordinary shares of the Company. Please refer to Note 28 for details.

On October 9, 2015, Datang subscribed 961,849,809 ordinary shares of the Company. Please refer to Note 28 for details.

On December 18, 2015, the Company and Datang Finance entered into a financial services agreement with a three year term commencing on January 1, 2016 and ending on December 31, 2018, pursuant to which Datang Finance has agreed to provide the Company and its subsidiaries, including its associated companies and companies under its management with a range of financial services (including deposit services, loan services, foreign exchange services and other financial services).

On December 28, 2015, the Company entered into a new framework agreement (the “Renewed Framework Agreement”) with Datang Holdings, pursuant to which the Group and Datang Holdings (including its associates) would engage in business collaboration including but not limited to foundry service. The term of the Renewed Framework Agreement is three years commencing from January 1, 2016. The pricing for the transactions contemplated under the Renewed Framework Agreement is determined based on the same as the Framework Agreement.

## Capital contribution

Subject to the amended joint venture agreement, revised on July 20, 2017, the Company agreed to increase its capital contribution obligation towards Sino IC Leasing from RMB600.0 million to RMB800.0 million (from approximately US\$88.3 million to US\$117.8 million), while its shareholding in Sino IC Leasing decreased to approximately 7.44% as of the date of this annual report.

On August 10, 2017, China IC Fund has agreed to make further cash contribution of US\$900.0 million into the registered capital of SMNC. Its shareholding in SMNC will increase from 26.5% to 32%. Please refer to Note 18 for details.



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In June 2016, China IC Fund made a capital contribution of US\$636.0 million into the registered capital of SMNC. Please refer to Note 18 for details.

In September 2016, China IC Fund made another capital contribution of US\$50.0 million into the registered capital of SJ Jianguin.

## Loans from non-controlling interests shareholders

In 2016, LFoundry entered into a seven-year loan facility in relation to the construction of the new co-generation from non-controlling interests shareholders of LFoundry. The outstanding balance of EUR10.6 million (approximately US\$12.7 million) is repayable from September 2018 to December 2023. Please refer to Note 31 for more details.

## Compensation of key management personnel

Key management personnel are those persons having authority and responsibility for planning, directing and controlling the activities of the Group, directly or indirectly, including directors of the Company.

The remuneration of key management personnel during the year are as follows:

	year ended 12/31/17 USD'000	year ended 12/31/16 USD'000	year ended 12/31/15 USD'000
Short-term benefit	4,853	4,921	4,731
Share-based payments	8,264	2,762	2,618
	13,117	7,683	7,349

The remuneration of key management personnel is determined by the Compensation Committee having regard to the Group's profitability, business achievement, individual performance and market trends.

## Arrangements/contracts for sale of self-developed living quarter unit

In 2016, the Group entered into arrangement/contracts with one of directors of the Company for sale of self-developed living quarter unit and the amount of the consideration is approximately US\$1.0 million. The transaction was completed in March 2017.

In 2015, the Group entered into arrangement/contracts with 4 of the Company's directors and key management for sale of self-developed living quarter units and the amount of the considerations was approximately US\$3.6 million, within which three transactions amounted to US\$2.4 million were completed as of December 31, 2017.

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## 44. Commitments for expenditure

## (i) Purchase commitments

As of December 31, 2017, 2016 and 2015, the Group had the following commitments to purchase machinery, equipment and construction obligations. The machinery and equipment is scheduled to be delivered to the Group's facility by December 31, 2018.

	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Commitments for the facility construction	484,468	239,759	165,274
Commitments for the acquisition of property, plant and equipment	476,132	800,597	1,146,275
Commitments for the acquisition of intangible assets	5,596	5,491	29,392
	966,196	1,045,847	1,340,941

## (ii) Non-cancellable operating leases

The Group leases certain of its production equipment under operating lease arrangements since 2016. Leases are negotiated for terms ranging from three to five years. Please refer to Note 43 for details.

At December 31, 2017, the Group had total future minimum lease payments under non-cancellable operating leases falling due as follows:

	12/31/17	12/31/16
	USD'000	USD'000
Within one year	91,181	23,483
Later than one year but not later than five years	203,684	45,989
	294,865	69,472

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## 45. Financial information of parent company

## (i) Statement of profit or loss

	Year ended		
	12/31/17	12/31/16	12/31/15
	USD'000	USD'000	USD'000
Revenue	—	—	—
General and administration expenses	(47,354)	(50,739)	(51,682)
Loss from operations	(47,354)	(50,739)	(51,682)
Interest income	2,670	1,154	474
Finance costs	(14,956)	(24,194)	(12,477)
Foreign exchange gains or losses	63,087	(15,269)	(2,848)
Share of profits of subsidiaries	169,880	477,510	321,199
Share of profits of associates	2,868	1,455	322
Other gains or losses, net	3,484	(13,287)	(1,577)
Profit before tax	179,679	376,630	253,411
Income tax expense	—	—	—
Profit for the year	179,679	376,630	253,411
Other comprehensive income (loss)			
Items that may be reclassified subsequently to profit or loss			
Exchange differences on translating foreign operations	21,590	(18,131)	(8,185)
Change in value of available-for-sale financial assets	(2,356)	798	447
Cash flow hedges	35,143	(34,627)	—
Share of other comprehensive income of joint ventures accounted for using the equity method	17,646	—	—
Other	(131)	1	130
Items that will not be reclassified to profit or loss			
Actuarial gains and losses on defined benefit plans	(436)	1,520	—
Total comprehensive income for the year	251,135	326,191	245,803

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## (ii) Statement of financial position

	12/31/17 USD'000	12/31/16 USD'000	12/31/15 USD'000
Assets			
Non-current assets			
Property, plant and equipment	47,090	89,404	30,123
Intangible assets	59,138	91,225	108,897
Investment in subsidiaries	4,779,485	4,333,604	3,312,113
Investments in associates	132,427	114,966	56,080
Other financial assets	11,732	—	—
Other assets	372,275	530,566	575,489
Total non-current assets	5,402,147	5,159,765	4,082,702
Current assets			
Prepayment and prepaid operating expenses	428	671	633
Trade and other receivables	29,061	24,749	22,945
Due from subsidiaries	1,609,556	908,716	427,279
Other financial assets	95,440	3,000	15,000
Cash and cash equivalent	140,411	317,873	115,726
Total current assets	1,874,896	1,255,009	581,583
Total assets	7,277,043	6,414,774	4,664,285
Equity and liabilities			
Capital and reserves			
Ordinary shares, \$0.004 par value, 10,000,000,000 shares authorized, 4,916,106,889, 4,252,922,259 and 4,207,374,896 shares issued and outstanding at December 31, 2017, 2016 and 2015	19,664	17,012	16,830
Share premium	4,827,619	4,950,948	4,903,861
Reserves	134,669	93,563	96,644
Retained earnings (accumulated deficit)	187,008	(910,849)	(1,287,479)
	5,168,960	4,150,674	3,729,856
Perpetual subordinated convertible securities	64,073	—	—
Total equity	5,233,033	4,150,674	3,729,856
Non-current liabilities			
Borrowings	76,520	72,077	—
Convertible bonds	403,329	395,210	—
Bonds payable	496,689	494,909	493,207
Medium-term notes	228,483	214,502	—
Other financial liabilities	1,885	60,610	—
Other liabilities	520	2,560	2,080
Total non-current liabilities	1,207,426	1,239,868	495,287
Current liabilities			
Trade and other payables	17,489	1,683	—
Due to subsidiaries	804,476	522,166	33,445
Convertible bonds	—	391,401	392,632
Short-term notes	—	86,493	—
Accrued liabilities	13,877	19,570	11,606
Other financial liabilities	742	2,919	1,459
Total current liabilities	836,584	1,024,232	439,142

Total liabilities	2,044,010	2,264,100	934,429
Total equity and liabilities	7,277,043	6,414,774	4,664,285

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## (iii) Statement of changes in equity

	Equity-settle employee benefits reserve USD'000	Foreign currency translation reserve USD'000	Change in value of available- for-sale financial assets USD'000	Convertible bonds equity reserve USD'000	Defined benefit plan reserve USD'000	Cash flow hedges USD'000	Share of other comprehensive income of joint ventures accounted for using equity method USD'000	Others USD'000	Ac de US
5,630	64,540	4,229	—	29,564	—	—	—	—	(1
	—	—	—	—	—	—	—	—	25
	—	(8,185)	447	—	—	—	—	130	—
	—	(8,185)	447	—	—	—	—	130	25
412	—	—	—	—	—	—	—	—	—
19	(12,169)	—	—	—	—	—	—	—	—
231	18,088 5,919	—	—	—	—	—	—	—	—
3,861	70,459	(3,956)	447	29,564	—	—	—	130	(1
	—	—	—	—	—	—	—	—	37
	—	(18,131)	798	—	1,520	(34,627)	—	1	—
	—	(18,131)	798	—	1,520	(34,627)	—	1	37
64	(18,594)	—	—	—	—	—	—	—	—
	13,838	—	—	—	—	—	—	—	—
23	—	—	—	(821)	—	—	—	—	—
	—	—	—	52,935	—	—	—	—	—



87	(4,756)	—	—	52,114	—	—	—	—	—
0,948	65,703	(22,087)	1,245	81,678	1,520	(34,627)	—	131	(9
	—	—	—	—	—	—	—	—	17
	—	21,590	(2,356)	—	(436)	35,143	17,646	(131)	—
	—	21,590	(2,356)	—	(436)	35,143	17,646	(131)	17
78	(18,220)	—	—	—	—	—	—	—	—
	17,495	—	—	—	—	—	—	—	—
168	—	—	—	(29,625)	—	—	—	—	—
174	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—
849)	—	—	—	—	—	—	—	—	91
	—	—	—	—	—	—	—	—	7,
329)	(725)	—	—	(29,625)	—	—	—	—	91
7,619	64,978	(497)	(1,111)	52,053	1,084	516	17,646	—	18

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## (iv) Statement of cash flow

	Year ended 12/31/17 USD'000	Year ended 12/31/16 USD'000	Year ended 12/31/15 USD'000
Operating activities			
Profit for the year	179,679	376,630	253,411
Adjustments for:			
Amortization of intangible assets and land use right	32,131	30,678	30,780
Depreciation of property, plant and equipment	10,706	8,062	4,046
Expense recognized in respect of equity-settled share-based payments	1,297	1,940	5,169
Finance costs	14,956	24,194	12,477
Interest income	(2,670)	(1,154)	(474)
Net (gain) loss arising on financial liabilities at fair value through profit or loss	(3,554)	13,182	1,459
Net (gain) loss on foreign exchange	(63,087)	5,982	184
Share of profit of investment accounted for using equity method	(172,748)	(478,965)	(321,521)
	(3,290)	(19,451)	(14,469)
Operating cash flows before movements in working capital:			
(Increase) decrease in trade and other receivables	(2,374)	(1,727)	465
Decrease (increase) in prepaid operating expenses	243	(57)	8
(Increase) decrease in other assets	(7,710)	777	—
Increase in trade and other payables	5,168	1,354	7,550
(Decrease) increase in accrued liabilities and other liabilities	(5,534)	2,818	2,541
Cash used in operations	(13,497)	(16,286)	(3,905)
Interest paid	(21,262)	(16,149)	(21,536)
Interest received	1,347	1,135	474
Net cash used in operating activities	(33,412)	(31,300)	(24,967)
Investing activities			
Payments to acquire financial assets	(92,000)	(6,000)	(12,000)
Proceeds on sale of financial assets	3,000	18,000	9,000
Investment in subsidiaries	(207,000)	(550,426)	(280,658)
Investment in associates	(15,095)	(63,796)	—
Payments for property, plant and equipment	—	(52,445)	—
Payments for intangible assets	(1,000)	(11,526)	(4,480)
Proceeds from disposal of available-for-sale investment	—	146	—
Cash paid for subsidiaries	(728,621)	(437,437)	(137,929)
Distributions received from associates	255	—	—
Net cash used in investing activities	(1,040,461)	(1,103,484)	(426,067)
Financing activities			
Proceeds from borrowings	—	76,006	21,912
Repayment of borrowings	—	—	(83,133)
Proceeds from issuance of new shares	326,351	—	508,807
Proceeds from issuance of convertible bonds	—	441,155	—
Proceeds from issuance of short-term and medium-term notes	—	314,422	—
Repayment of short-term notes	(87,858)	—	—
Proceeds from issuance of perpetual subordinated convertible securities	64,350	—	—

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Proceeds from exercise of employee stock options	17,088	17,610	8,743
Cash received from subsidiaries	572,320	487,050	55,015
Net cash from financing activities	892,251	1,336,243	511,344
Net (decrease) increase in cash and cash equivalent	(181,622)	201,459	60,310
Cash and cash equivalent at the beginning of the year	317,873	115,726	55,600
Effects of exchange rate changes on the balance of cash held in foreign currencies	4,160	688	(184)
Cash and cash equivalent at the end of the year	140,411	317,873	115,726

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- 4.
- 5.
- 46. Subsequent events

(i) Capital contribution in Semiconductor Manufacturing South China Corporation (“SMSC”)

On January 30, 2018, SMIC Holdings, SMIC Shanghai, China IC Fund and Shanghai IC Fund entered into the joint venture agreement and the capital contribution agreement pursuant to which SMIC Holdings, China IC Fund and Shanghai IC Fund agreed to make cash contribution to the registered capital of SMSC in the amount of US\$1.5435 billion, US\$946.5 million and US\$800 million, respectively. As a result of the capital contribution: (i) the registered capital of SMSC will increase from US\$210 million to US\$3.5 billion; (ii) the Company’s equity interest in SMSC, through SMIC Holdings and SMIC Shanghai, will decrease from 100% to 50.1%; and (iii) SMSC will be owned as to 27.04% and 22.86% by China IC Fund and Shanghai IC Fund, respectively.

(ii) Equity transfer and capital contribution in Ningbo Semiconductor International Corporation (“NSI”)

On March 22, 2018, NSI, SMIC Holdings and China IC Fund entered into the equity transfer agreement, pursuant to which SMIC Holdings has agreed to sell the equity interest to China IC Fund. Upon the completion of the equity transfer, the shareholding of SMIC Holdings in NSI will decrease from approximately 66.76% to 38.59%, and NSI will cease to be a subsidiary of the Company and its financial results will cease to be consolidated with the Group’s results. There is no gain or loss expected to accrue to the Company as a result of the equity transfer. The equity transfer has been completed in April, 2018 and the Group recorded its ownership interest of NCI as investment in associate.

On March 23, 2018, NSI, SMIC Holdings, China IC Fund, Ningbo Senson Electronics Technology Co., Ltd, Beijing Integrated Circuit Design and Testing Fund, Ningbo Integrated Circuit Industry Fund and Infotech National Emerging Fund entered into the capital increase agreement, pursuant to which (i) SMIC Holdings has agreed to make further cash contribution of RMB565 million (approximately US\$89.4 million) into the registered capital of NSI. Its shareholding in the Joint Venture Company will decrease from approximately 38.59% to approximately 38.57%; (ii) China IC Fund has agreed to make further cash contribution of RMB500 million (approximately US\$79.2 million) into the registered capital of NSI. Its shareholding in NSI will increase from approximately 28.17% to approximately 32.97%. The all above parties’ performance of the Capital Contribution obligations will lead to an increase in the registered capital from RMB355 million to RMB1.82 billion (approximately US\$56.2 million to US\$288.1 million).

- 47. Approval of financial statements

The financial statements were approved and authorized for issue by the board of directors of the Company on March 29, 2018.

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Annex A

ASIC/ASSP	Application Specific Integrated Circuit/Application Specific Standard Parts. ASICs/ASSPs are designed to provide a very specific function for a specific application in any one of the six application markets: computing, communications, consumer, automotive and industrial. ASICs include both standard catalogue products, standard and customized/application-specific logic ICs.
Analog PDs	Analog PhotoDiodes. Using PN junction in a silicon device stack as light detector, transforming light into electrical signals. Analog PDs do not have CMOS circuitry included, thus the main functionality is the transformation of the light into electrical signal. Post processing of the signal is done in a separate semiconductor device.
BCD	Bipolar-CMOS-DMOS. CMOS technology with embedded high voltage devices - LDMOS (laterally diffused metal oxide semiconductor) - for high output power with a corresponding drain to source breakdown voltage up to 40 volts and above, applicable for power management products.
Cell	A primary unit that normally repeats many times in an integrated circuit. Cells represent individual functional design units or circuits that may be reused as blocks in designs. For example, a memory cell represents a storage unit in a memory array.
CIS	CMOS Image Sensor. CIS can be used in applications such as still and video cameras and embedded cameras in mobile telephones. It is a fast growing imaging sensor technology. The fabrication of CIS is fully compatible with the mainstream CMOS process, which enables system-on-chip capability, low power consumption and low cost of fabrication.
Clean room	Area within a fab in which the wafer fabrication takes place. The classification of a clean room relates to the maximum number of particles of contaminants per cubic foot within that room. For example, a class 100 clean room contains less than 100 particles of contaminants per cubic foot.
CMOS	Complementary Metal Oxide Silicon. A fabrication process that incorporates n-channel and p-channel CMOS transistors within the same silicon substrate. Currently, this is the most commonly used integrated circuit fabrication process technology and is one of the latest fabrication techniques to use metal oxide semiconductor transistors
CVD	Chemical Vapor Deposition. A process in which gaseous chemicals react on a heated wafer surface to form solid film.
Die	One individual chip cut from a wafer before being packaged.
DRAM	Dynamic Random Access Memory. A device that temporarily stores digital information but requires regular refreshing to ensure data is not lost.

DSP	Digital Signal Processor. A type of integrated circuit that processes and manipulates digital information after it has been converted from an analog source.
eEEPROM	Embedded Electrically Erasable Programmable Read-Only Memory is a type of embedded Non-Volatile Memory that has similar function as an EEPROM, but in generally is embedded in a system or in a controller IC or SoC
EEPROM	Electrically Erasable Programmable Read-Only Memory. An integrated circuit that can be electrically erased and electrically programmed with user-defined information.

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EPROM	Erasable Programmable Read-Only Memory. A form of PROM that is programmable electrically yet erasable using ultraviolet light.
FinFet	Fin Field Effect Transistors (FinFET) are self-aligned multi-gate devices with a conventional CMOS process. It allows extending the gate scaling beyond the planar transistor limits with 3d shape above the substrate. FinFET's conducting channel is wrapped by a thin silicon "fin", which forms the body of the device. The thickness of the "fin" will determine the effective channel length of the device. FinFET greatly reduces the leakage currents and enables the use of lower threshold voltages and results better performance and power savings.
Flash memory	A type of non-volatile memory where data is erased in blocks. The name "flash" is derived from the rapid block erase operation. Flash memory requires only one transistor per memory cell versus two transistors per memory cell for EEPROMs, making flash memory less expensive to produce. Flash memory is the most popular form of non-volatile semiconductor memory currently available.
FPGA	A field-programmable gate array (FPGA) is an integrated circuit designed to be configured by a customer or a designer after manufacturing – hence "field-programmable". The FPGA configuration is generally specified using a hardware description language, similar to that used for an application-specific integrated circuit.
Gold Bumping	The fabrication process of forming gold bump termination electrodes on a finished wafer.
High-K Metal Gate (HKMG)	High-k Metal Gate (HKMG) is referring to High-k dielectrics, used in semiconductor manufacturing process with metallic gate, generally replaces a silicon dioxide gate dielectric or another dielectric layers of a device. HKMG allows the increase of gate capacitance without the associated leakage effects.
High voltage semiconductor	High voltage semiconductors are semiconductor devices that can drive relatively high voltage potential to systems that require higher voltage of between five volts to several hundred volts.
HybridBonding	Wafer-to-wafer bonding with electrical interconnect. The wafer surfaces are planarized, then aligned and bonded together at room temperature on their top surface directly connecting the metal interconnects during low temperature anneal step.
IDM	Integrated Device Manufacturer.
Integrated circuit	An electronic circuit where all the elements of the circuit are integrated together on a single semiconductor substrate.
Interconnect	Conductive materials such as aluminum doped polysilicon or copper that form the wiring circuitry to carry electrical signals to different parts of the chip.
IPD	Integrated Passive Devices. IPDs are generally fabricated using standard wafer fab technologies such as thin film and photolithography processing. IPDs can be designed as flip chip mountable or wire bondable components and the substrates for IPDs usually are thin film substrates like silicon, alumina or glass.
I/O	Inputs/Outputs.

Logic device      A device that contains digital integrated circuits that perform a function rather than store information.

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Mask	A glass plate with a pattern of transparent and opaque areas used to create patterns on wafers. “Mask” is commonly used to refer to a plate that has a pattern large enough to pattern a whole wafer at one time, as compared to a reticle, where a glass plate can contain the pattern for one or more dies but is not large enough to transfer a wafer-sized pattern all at once.
MCU	Microcontroller Unit. Includes a central processing unit, program memory, read/write data memory and some I/O capability. May include EEPROM, Flash and/or other types of memory embedded inside.
Memory	A device that can store information for later retrieval.
MEMS	Micro-Electro-Mechanical Systems.
Micro-display	A small display that is of such high resolution that it is only practically viewed or projected with lenses or mirrors. A micro-display is typically magnified by optics to enlarge the image viewed by the user. For example, a miniature display smaller than one inch in size may be magnified to provide a 12 inch to 60 inch viewing area.
Micron	A term for micrometer, which is a unit of linear measure that equals one one-millionth (1/1,000,000) of a meter. There are 25.4 microns in one one-thousandth of an inch.
Mixed-signal	The combination of analog and digital circuitry in a single semiconductor.
MPU	Microprocessors (MPUs). MPU includes an instruction decoder, ALU, registers and additional logic for fetching instructions, executing instructions and manipulating data. Computer MPU; Embedded MPU; General Purpose MPUs.
MPW	Multi-Project Wafer integrates numbers of different integrated circuit designs from various parties onto one single wafer in order for these parties to share mask and wafer resources to reduce cost and to produce in low quantities.
Nanometer	A term for micrometer, which is a unit of linear measure that equals one thousandth (1/1,000) of a micron.
NFC	Near-field communication, a set of communication protocols that enable two electronic devices to establish communication by bringing them within a short distance of each other.
Non-volatile memory	Memory products that maintain their content when the power supply is switched off
PolySiON	Polycrystalline silicon oxygen nitride (PolySiON) is referring to semiconductor manufacturing process with CMOS technology using conventional poly gate and silicon oxygen nitride gate dielectrics.
PROM	Programmable Read-Only Memory. Memory that can be reprogrammed once after manufacturing.
RAM	Random Access Memory. Memory devices where any memory cell in a large memory array may be accessed in any order at random.
Reticle	See “Mask” above.

RF                    Radio Frequency. Radio frequency semiconductors are primarily used in communications devices such as cell phones.

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RFID	Radio Frequency Identification. Radio-frequency identification (RFID) is the use of a wireless non-contact system that uses radio-frequency electromagnetic fields to transfer data from a tag attached to an object. RFID's frequency bands ranges from (125kHz~135kHz) (13.56MHz), and (860MHz~960MHz).
RF-FEM	Radio Frequency Front End Module. RF-Front End Module, a generic term for all the circuitry between the antenna and the first intermediate frequency (IF) stage. It consists of all the components in the receiver that process the signal at the original incoming radio frequency (RF), before it is converted to a lower intermediate frequency (IF). RF-FEM can consist of the combination of Tuner, Switch, PA, Filter, Transceivers related devices.
RF PA	Radio Frequency Power Amplifier. Primarily referring to CMOS-based Power Amplifier which increases radio signal frequencies in radio communications.
RF Tx/Rx	Radio Frequency Transceiver. Referring to Transmitter, Receiver, or both functions in one common circuitry as a Transceiver.
ROM	Read-Only Memory. See "Mask ROM" above.
Scanner	An aligner that scans light through a slit across a mask to produce an image on a wafer.
Semiconductor	An element with an electrical resistivity within the range of an insulator and a conductor. A semiconductor can conduct or block the flow of electric current depending on the direction and magnitude of applied electrical biases.
SoC.	System on Chip. A system on a chip or system on chip (SoC or SOC) is an integrated circuit (IC) that integrates all components of a computer, communication or other electronic system into a single chip. It may contain digital, analog, mixed-signal, and often radio- frequency functions—all on a single chip substrate.
Solder bumping	The fabrication processes of forming solder bump termination electrodes, which are elevated metal structures, or lead free bump termination electrodes.
SPAD	Single Photon Avalanche Diode. technology processes between 110 to 150nm specifically setup for SPAD device designs. SPAD devices produces on silicon wafers are solid-state photodetectors in which a photon-generated carrier can trigger an avalanche current due to the impact ionization mechanism. Such device is able to detect low-intensity signals (down to the single photon) and to signal the arrival times of the photons within a few tens of picoseconds
SRAM	Static Random Access Memory. A type of volatile memory product that is used in electronic systems to store data and program instructions. Unlike the more common DRAM, it does not need to be refreshed.
System-on-chip	A chip that incorporates functions usually performed by several different devices and therefore generally offers better performance and lower cost.

Systems companies	Companies that design and manufacture complete end market products or systems for sale to the market.
Transistor	An individual circuit that can amplify or switch electric current. This is the building block of all integrated circuits.

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Volatile memory      Memory products that lose their content when the power supply is switched off. Wafer A thin, round, flat piece of silicon that is the base of most integrated circuits.

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