

UNIVERSAL DISPLAY CORP \PA\  
Form 10-Q  
November 05, 2015  
Table of Contents

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 10-Q  
(Mark One)

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

For the quarterly period ended September 30, 2015

OR

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

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number 1-12031

UNIVERSAL DISPLAY CORPORATION  
(Exact name of registrant as specified in its charter)  
Pennsylvania  
(State or other jurisdiction of incorporation or organization)

23-2372688  
(I.R.S. Employer Identification No.)

375 Phillips Boulevard, Ewing, New Jersey 08618  
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: (609) 671-0980

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 a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer  Accelerated filer  
Non-accelerated filer (Do not check if a smaller reporting company)  Smaller reporting company \_\_\_\_\_

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  
No

As of November 3, 2015, the registrant had outstanding 46,711,869 shares of common stock.

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Table of Contents

TABLE OF CONTENTS

PART I – FINANCIAL INFORMATION

Item 1. Financial Statements (unaudited)

Consolidated Balance Sheets – September 30, 2015 and December 31, 2014 1

Consolidated Statements of Operations - Three and nine months ended September 30, 2015 and 2014 2

Consolidated Statements of Comprehensive Income (Loss) – Three and nine months ended September 30, 2015 and 2014 3

Consolidated Statement of Shareholders' Equity – Nine months ended September 30, 2015 4

Consolidated Statements of Cash Flows – Nine months ended September 30, 2015 and 2014 5

Notes to Consolidated Financial Statements 6

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations 20

Item 3. Quantitative and Qualitative Disclosures About Market Risk 29

Item 4. Controls and Procedures 30

PART II – OTHER INFORMATION

Item 1. Legal Proceedings 30

Item 1A. Risk Factors 32

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds 32

Item 3. Defaults Upon Senior Securities 32

Item 4. Mine Safety Disclosures 32

Item 5. Other Information 32

Item 6. Exhibits 32

Table of Contents

## PART I – FINANCIAL INFORMATION

## ITEM 1. FINANCIAL STATEMENTS

## UNIVERSAL DISPLAY CORPORATION AND SUBSIDIARIES

## CONSOLIDATED BALANCE SHEETS

(UNAUDITED)

(in thousands, except share and per share data)

	September 30, 2015	December 31, 2014
ASSETS		
CURRENT ASSETS:		
Cash and cash equivalents	\$89,956	\$45,418
Short-term investments	271,593	243,088
Accounts receivable	28,350	22,075
Inventory	13,688	37,109
Deferred income taxes	15,785	18,459
Other current assets	4,523	4,356
Total current assets	423,895	370,505
PROPERTY AND EQUIPMENT, net of accumulated depreciation of \$27,036 and \$24,813	21,490	19,922
ACQUIRED TECHNOLOGY, net of accumulated amortization of \$52,087 and \$43,838	74,765	83,014
INVESTMENTS	3,024	3,047
DEFERRED INCOME TAXES	10,917	12,934
OTHER ASSETS	232	425
TOTAL ASSETS	\$534,323	\$489,847
LIABILITIES AND SHAREHOLDERS' EQUITY		
CURRENT LIABILITIES:		
Accounts payable	\$10,334	\$9,260
Accrued expenses	12,979	14,986
Deferred revenue	20,830	2,466
Other current liabilities	104	111
Total current liabilities	44,247	26,823
DEFERRED REVENUE	26,382	3,366
RETIREMENT PLAN BENEFIT LIABILITY	12,235	10,916
Total liabilities	82,864	41,105
COMMITMENTS AND CONTINGENCIES (Note 13)		
SHAREHOLDERS' EQUITY:		
Preferred Stock, par value \$0.01 per share, 5,000,000 shares authorized, 200,000 shares of Series A Nonconvertible Preferred Stock issued and outstanding (liquidation value of \$7.50 per share or \$1,500)	2	2
Common Stock, par value \$0.01 per share, 100,000,000 shares authorized, 47,494,938 and 47,061,826 shares issued and outstanding at September 30, 2015 and December 31, 2014, respectively	475	471
Additional paid-in capital	586,533	581,114
Accumulated deficit	(91,715)	(88,305)
Accumulated other comprehensive loss	(3,678)	(4,382)
	(40,158)	(40,158)

Treasury stock, at cost (1,357,863 shares at September 30, 2015 and December 31, 2014)

Total shareholders' equity	451,459	448,742
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY	\$534,323	\$489,847

The accompanying notes are an integral part of these consolidated financial statements.

1

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Table of Contents

UNIVERSAL DISPLAY CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF OPERATIONS  
(UNAUDITED)

(in thousands, except share and per share data)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2015	2014	2015	2014
<b>REVENUE:</b>				
Material sales	\$34,128	\$27,494	\$85,270	\$98,746
Royalty and license fees	5,224	5,357	43,332	35,200
Technology development and support revenue	67	41	132	911
Total revenue	39,419	32,892	128,734	134,857
<b>OPERATING EXPENSES:</b>				
Cost of material sales	7,246	7,388	54,913	29,236
Research and development	11,434	7,915	32,000	28,639
Selling, general and administrative	7,240	6,625	20,145	19,576
Patent costs and amortization of acquired technology	4,032	4,081	12,461	12,801
Royalty and license expense	1,105	803	3,563	3,060
Total operating expenses	31,057	26,812	123,082	93,312
Operating income	8,362	6,080	5,652	41,545
INTEREST INCOME	232	187	593	598
INTEREST EXPENSE	(7	) (17	) (31	) (55
INCOME BEFORE INCOME TAXES	8,587	6,250	6,214	42,088
INCOME TAX EXPENSE	(1,540	) (1,966	) (9,624	) (13,360
NET INCOME (LOSS)	\$7,047	\$4,284	\$(3,410)	) \$28,728
<b>NET INCOME (LOSS) PER COMMON SHARE:</b>				
BASIC	\$0.15	\$0.09	\$(0.07	) \$0.62
DILUTED	\$0.15	\$0.09	\$(0.07	) \$0.61
<b>WEIGHTED AVERAGE SHARES USED IN COMPUTING NET INCOME (LOSS) PER COMMON SHARE:</b>				
BASIC	46,542,556	46,197,713	46,241,578	46,398,644
DILUTED	46,723,373	46,633,763	46,241,578	46,956,428

The accompanying notes are an integral part of these consolidated financial statements.

Table of Contents

UNIVERSAL DISPLAY CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)  
(UNAUDITED)  
(in thousands)

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2015	2014	2015	2014
NET INCOME (LOSS)	\$7,047	\$4,284	\$(3,410)	) \$28,728
OTHER COMPREHENSIVE INCOME, NET OF TAX:				
Unrealized (loss) gain on available-for-sale securities, net of tax of \$2, \$9, \$(6) and \$10, respectively	(5	) (19	) (9	) 20
Employee benefit plan:				
Amortization of prior service cost and actuarial loss for retirement plan included in net periodic pension costs, net of tax of \$157, \$54, \$401 and \$162, respectively	279	92	713	275
Net change for employee benefit plan	279	92	713	275
TOTAL OTHER COMPREHENSIVE INCOME	274	73	704	295
COMPREHENSIVE INCOME (LOSS)	\$7,321	\$4,357	\$(2,706)	) \$29,023

The accompanying notes are an integral part of these consolidated financial statements.

Table of Contents

UNIVERSAL DISPLAY CORPORATION AND SUBSIDIARIES  
 CONSOLIDATED STATEMENT OF SHAREHOLDERS' EQUITY  
 (UNAUDITED)

(in thousands, except for share data)

	Series A Nonconvertible Preferred Stock Shares	Amount	Common Stock Shares	Amount	Additional Paid-in Capital	Accumulated Deficit	Other Comprehensive Loss	Treasury Stock Shares	Amount	Total Shareholders' Equity
BALANCE, DECEMBER 31, 2014	200,000	\$2	47,061,826	\$471	\$581,114	\$(88,305)	\$(4,382)	1,357,863	\$(40,158)	\$448,742
Net loss	—	—	—	—	—	(3,410)	—	—	—	(3,410)
Other comprehensive income	—	—	—	—	—	—	704	—	—	704
Exercise of common stock options	—	—	215,390	2	1,627	—	—	—	—	1,629
Issuance of common stock to employees	—	—	296,098	3	7,652	—	—	—	—	7,655
Shares withheld for employee taxes	—	—	(124,271)	(1)	(5,312)	—	—	—	—	(5,313)
Issuance of common stock to Board of Directors and Scientific Advisory Board	—	—	36,851	—	1,118	—	—	—	—	1,118
Issuance of common stock to employees under an ESPP	—	—	9,044	—	334	—	—	—	—	334
BALANCE, SEPTEMBER 30, 2015	200,000	\$2	47,494,938	\$475	\$586,533	\$(91,715)	\$(3,678)	1,357,863	\$(40,158)	\$451,459

The accompanying notes are an integral part of these consolidated financial statements.



Table of Contents

UNIVERSAL DISPLAY CORPORATION AND SUBSIDIARIES  
CONSOLIDATED STATEMENTS OF CASH FLOWS  
(UNAUDITED)  
(in thousands)

	Nine Months Ended September	
	30,	2014
	2015	2014
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>		
Net (loss) income	\$(3,410	) \$28,728
Adjustments to reconcile net (loss) income to net cash provided by operating activities:		
Amortization of deferred revenue	(7,031	) (3,825
Depreciation	2,223	1,499
Amortization of intangibles	8,249	8,248
Inventory write-down	33,000	—
Amortization of premium and discount on investments, net	(479	) (405
Stock-based compensation to employees	6,759	5,333
Stock-based compensation to Board of Directors and Scientific Advisory Board	818	729
Deferred income tax benefit	4,291	8,737
Retirement plan benefit expense	2,433	1,257
(Increase) decrease in assets:		
Accounts receivable	(6,275	) (6,450
Inventory	(9,579	) (19,239
Other current assets	(167	) (6,712
Other assets	193	(266
Increase (decrease) in liabilities:		
Accounts payable and accrued expenses	1,192	(3,119
Other current liabilities	(7	) 469
Deferred revenue	48,411	3,793
Net cash provided by operating activities	80,621	18,777
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>		
Purchases of property and equipment	(4,650	) (4,214
Purchases of investments	(453,672	) (301,924
Proceeds from sale of investments	425,660	278,226
Net cash used in investing activities	(32,662	) (27,912
<b>CASH FLOWS FROM FINANCING ACTIVITIES:</b>		
Proceeds from issuance of common stock under ESPP	263	279
Repurchase of common stock	—	(22,500
Proceeds from the exercise of common stock options	1,629	1,001
Payment of withholding taxes related to stock-based compensation to employees	(5,313	) (2,840
Net cash used in financing activities	(3,421	) (24,060
<b>INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS</b>	<b>44,538</b>	<b>(33,195</b>
<b>CASH AND CASH EQUIVALENTS, BEGINNING OF PERIOD</b>	<b>45,418</b>	<b>70,586</b>
<b>CASH AND CASH EQUIVALENTS, END OF PERIOD</b>	<b>\$89,956</b>	<b>\$37,391</b>
The following non-cash activities occurred:		
Unrealized loss on available-for-sale securities	\$9	\$30
Common stock issued to Board of Directors and Scientific Advisory Board that was earned and accrued for in a previous period	300	323
	967	746

Common stock issued to employees that was earned and accrued for in a previous period

Net change in accounts payable and accrued expenses related to purchases of property and equipment	(858	)	(252	)
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The accompanying notes are an integral part of these consolidated financial statements.

5

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Table of Contents

UNIVERSAL DISPLAY CORPORATION AND SUBSIDIARIES  
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS  
(UNAUDITED)

1. BUSINESS:

Universal Display Corporation (the Company) is a leader in the research, development and commercialization of organic light emitting diode (OLED) technologies and materials. OLEDs are thin, lightweight and power-efficient solid-state devices that emit light, making them highly suitable for use in full-color displays and as lighting products. OLED displays are capturing a growing share of the display market. The Company believes this is because OLEDs offer potential advantages over competing display technologies with respect to power efficiency, contrast ratio, viewing angle, video response time, form factor and manufacturing cost. The Company also believes that OLED lighting products have the potential to replace many existing light sources in the future because of their high power efficiency, excellent color rendering index, low operating temperature and novel form factor. The Company's technology leadership and intellectual property position should enable it to share in the revenues from OLED displays and lighting products as they enter mainstream consumer and other markets.

The Company's primary business strategy is to (1) further develop and license its proprietary OLED technologies to manufacturers of products for display applications, such as mobile phones, portable media devices, wearables, tablets, laptop computers and televisions, and specialty and general lighting products; and (2) develop new OLED materials and sell existing and any new materials to those product manufacturers. The Company has established a significant portfolio of proprietary OLED technologies and materials, primarily through internal research and development efforts and acquisitions of patents and patent applications, as well as maintaining its relationships with world-class partners such as Princeton University (Princeton), the University of Southern California (USC), the University of Michigan (Michigan) and PPG Industries, Inc. (PPG Industries). The Company currently owns, exclusively licenses or has the sole right to sublicense more than 3,500 patents issued and pending worldwide.

The Company sells its proprietary OLED materials to customers for evaluation and use in commercial OLED products. The Company also enters into agreements with manufacturers of OLED display and lighting products under which it grants them licenses to practice under its patents and to use the Company's proprietary know-how. At the same time, the Company works with these and other companies who are evaluating the Company's OLED technologies and materials for possible use in commercial OLED display and lighting products.

2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

Interim Financial Information

In the opinion of management, the accompanying unaudited consolidated financial statements contain all adjustments (consisting of only normal recurring adjustments) necessary to present fairly the Company's financial position as of September 30, 2015 and results of operations for the three and nine months ended September 30, 2015 and 2014, and cash flows for the nine months ended September 30, 2015 and 2014. While management believes that the disclosures presented are adequate to make the information not misleading, these unaudited consolidated financial statements should be read in conjunction with the audited consolidated financial statements and the notes thereto in the Company's latest year-end financial statements, which are included in the Company's Annual Report on Form 10-K for the year ended December 31, 2014. The results of the Company's operations for any interim period are not necessarily indicative of the results of operations for any other interim period or for the full year.

Principles of Consolidation

The consolidated financial statements include the accounts of Universal Display Corporation and its wholly owned subsidiaries, UDC, Inc., UDC Ireland Limited, Universal Display Corporation Hong Kong, Ltd., Universal Display Corporation Korea, Y.H., and Universal Display Corporation Japan, G.K. All intercompany transactions and accounts have been eliminated.

Management's Use of Estimates

The preparation of financial statements in conformity with U.S. generally accepted accounting principles (GAAP) requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The estimates made are principally in the areas of revenue

recognition for license agreements, the useful life of acquired technology, the use and recoverability of inventories, income taxes including realization of deferred tax assets, stock-based compensation and retirement benefit plan liabilities. Actual results could differ from those estimates.

## Table of Contents

### Inventories

Inventories consist of raw materials, work-in-process and finished goods, including inventory consigned to customers, and are stated at the lower of cost, determined on a first-in, first-out basis, or market. Inventory valuation and firm committed purchase order assessments are performed on a quarterly basis and those items that are identified to be obsolete or in excess of forecasted usage are written down to their estimated realizable value. Estimates of realizable value are based upon management's analyses and assumptions, including, but not limited to, forecasted sales levels by product, expected product lifecycle, product development plans and future demand requirements. A 12-month rolling forecast based on factors, including, but not limited to, production cycles, anticipated product orders, marketing forecasts, backlog, and shipment activities is used in the inventory analysis. If market conditions are less favorable than forecasts or actual demand from customers is lower than estimates, additional inventory write-downs may be required. If demand is higher than expected, inventories that had previously been written down may be sold.

Certain of the Company's customers have assumed the responsibility for maintaining the Company's inventory at their location based on the customers' demand forecast. Notwithstanding the fact that the Company builds and ships the inventory, the customer does not purchase the consigned inventory until the inventory is drawn or pulled by the customer to be used in the manufacture of the customer's product. Though the consigned inventory may be at the customer's physical location, it remains inventory owned by the Company until the inventory is drawn or pulled, which is the time at which the sale takes place.

### Fair Value of Financial Instruments

The carrying values of accounts receivable, other current assets, and accounts payable approximate fair value in the accompanying financial statements due to the short-term nature of those instruments. The Company's other financial instruments, which include cash equivalents and investments, are carried at fair value as noted above.

### Revenue Recognition and Deferred Revenue

Material sales relate to the Company's sale of its OLED materials for incorporation into its customers' commercial OLED products or for their OLED development and evaluation activities. Material sales are recognized at the time of shipment or at time of delivery, and passage of title, depending upon the contractual agreement between the parties. The Company receives non-refundable license and royalty payments under certain commercial, development and technology evaluation agreements. These payments may include royalty and license fees made pursuant to license agreements and certain commercial supply agreements. Amounts received are deferred and classified as either current or non-current deferred revenue based upon current contractual remaining terms; however, based upon on-going relationships with customers, as well as future agreement extensions and other factors, amounts classified as current as of September 30, 2015 may not be recognized as revenue over the next twelve months. The Company evaluates these agreements quarterly, and if it is determined that there is no appreciable likelihood of executing a commercial license agreement with the customer or if a customer terminates the relationship prior to the expiration of its term, the previous deferred amount will be recognized as revenue in the corresponding period. For arrangements with extended payment terms where the fee is not fixed and determinable, the Company recognizes revenue when the payment is due and payable. Royalty revenue and license fees included as part of commercial supply agreements are recognized when earned and the amount is fixed and determinable.

Currently, the Company's most significant commercial license agreement, which runs through the end of 2017, is with Samsung Display Co., Ltd. (SDC) and covers the manufacture and sale of specified OLED display products. Under this agreement, the Company is being paid a license fee, payable in semi-annual installments over the agreement term of 6.4 years. The installments, which are due in the second and fourth quarter of each year, increase on an annual basis over the term of the agreement. The agreement conveys to SDC the non-exclusive right to use certain of the Company's intellectual property assets for a limited period of time that is less than the estimated life of the assets. Ratable recognition of revenue is impacted by the agreement's extended increasing payment terms in light of the Company's limited history with similar agreements. As a result, revenue is recognized at the lesser of the proportional performance approach (ratable) and the amount of due and payable fees from SDC. Given the increasing contractual payment schedule, license fees under the agreement are recognized as revenue when they become due and payable, which is currently scheduled to be in the second and fourth quarter of each year.

In the first quarter of 2015, the Company entered into an OLED patent license agreement and an OLED commercial material supply agreement with LG Display Co., Ltd. (LG Display). The agreements have a term that is set to expire at the end of 2022. The patent license agreement provides LG Display a non-exclusive, royalty bearing portfolio license to make and sell OLED displays under the Company's patent portfolio. The patent license calls for license fees, prepaid royalties and running royalties on licensed products. The agreements include customary provisions relating to warranties, indemnities, confidentiality, assignability and business terms. The agreements provide for certain other minimum obligations relating to the volume of material sales anticipated over the term of the agreements, if certain conditions are met, as well as minimum royalty revenue to be generated under the patent license agreement. The Company expects to generate revenue under these agreements that are predominantly tied to LG Display sales of OLED licensed products. The OLED commercial supply agreement provides for the sale of material for use by LG Display, which may include phosphorescent emitter and host materials.

Table of Contents

The Company records taxes billed to customers and remitted to various governmental entities on a gross basis in both revenues and cost of material sales in the consolidated statements of operations. The amounts of these pass through taxes reflected in revenues and cost of material sales were \$230,000 and \$1.1 million for the three and nine months ended September 30, 2015, respectively, and \$742,000 and \$3.9 million for the three and nine months ended September 30, 2014, respectively.

**Cost of Material Sales**

Cost of material sales consists of labor and material costs associated with the production of materials processed at the Company's manufacturing partners and at the Company's internal manufacturing processing facility. Cost of material sales also includes depreciation of manufacturing equipment, as well as manufacturing overhead costs and inventory adjustments for excess and obsolete inventory.

**Recent Accounting Pronouncements**

In May 2014, the Financial Accounting Standards Board (FASB) issued a new revenue recognition standard entitled "Revenue from Contracts with Customers." The objective of the standard is to establish the principles that an entity shall apply to report useful information to users of financial statements about the nature, amount, timing, and uncertainty of revenue and cash flows from a contract with a customer. The standard is effective for annual reporting periods beginning after December 15, 2017. Earlier application as of the original date is optional; however, the Company will adopt the standard beginning January 1, 2018. The standard allows for either "full retrospective" adoption, meaning the standard is applied to all periods presented, or "modified retrospective" adoption, meaning the standard is applied only to the most current period presented in the financial statements. The Company is currently assessing which method it will choose for adoption, and is evaluating the impact of the adoption of this new accounting standard on its consolidated results of operations and financial position.

In July 2015, the FASB issued ASU No. 2015-11, Simplifying the Measurement of Inventory, which requires an entity that uses the first in first out method for inventory to report inventory cost at the lower of cost or net realizable value versus the current measurement principle of lower of cost or market. The ASU requires prospective adoption for inventory measurements for fiscal years beginning after December 15, 2016. Early adoption is permitted. The Company is evaluating the effect that ASU 2015-11 may have on its consolidated financial statements and related disclosures.

**3. CASH, CASH EQUIVALENTS AND INVESTMENTS:**

The Company considers all highly liquid debt instruments purchased with an original maturity of three months or less to be cash equivalents. The Company classifies its remaining investments as available-for-sale. These securities are carried at fair market value, with unrealized gains and losses reported in shareholders' equity. Gains or losses on securities sold are based on the specific identification method. Investments as of September 30, 2015 and December 31, 2014 consisted of the following (in thousands):

Investment Classification	Amortized Cost	Unrealized Gains	(Losses)	Aggregate Fair Market Value
September 30, 2015				
Certificates of deposit	\$11,323	\$10	\$(6)	) \$11,327
Corporate bonds	259,883	18	(71)	) 259,830
U.S. Government bonds	3,462	—	(2)	) 3,460
	\$274,668	\$28	\$(79)	) \$274,617
December 31, 2014				
Certificates of deposit	\$11,373	\$4	\$(13)	) \$11,364
Corporate bonds	228,799	14	(41)	) 228,772
U.S. Government bonds	5,999	—	—	) 5,999
	\$246,171	\$18	\$(54)	) \$246,135

**4. INVENTORIES:**

Inventories consisted of the following (in thousands):





Table of Contents

	September 30, 2015	December 31, 2014
Raw materials	\$6,538	\$7,696
Work-in-process	1,055	4,419
Finished goods	6,095	24,994
Inventories	\$13,688	\$37,109

Inventories included \$32,000 and \$1.0 million of inventory consigned to customers at September 30, 2015 and December 31, 2014, respectively. There were no inventory write downs during the three months ended September 30, 2015 and 2014. For the nine months ended September 30, 2015, and 2014, the Company recorded inventory write-downs of \$33.0 million and none, respectively. The write-down for the 2015 period consisted of \$22.9 million of work-in-process and \$10.1 million of finished goods inventory. During the second quarter of 2015, the Company experienced a faster-than-anticipated decline in host material sales and based on the most recent sales forecast, the Company determined that there were likely to be significantly lower sales of existing host material. Sales forecasts tend to be volatile, but because of the deterioration in both actual and forecasted sales demand, a write-down in net realizable value primarily to host inventory was required.

## 5. FAIR VALUE MEASUREMENTS:

The following table provides the assets and liabilities carried at fair value measured on a recurring basis as of September 30, 2015 (in thousands):

	Total carrying value as of September 30, 2015	Fair Value Measurements, Using		
		Quoted prices in active markets (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
Cash equivalents	\$40,496	\$40,496	\$—	\$—
Short-term investments	271,593	271,593	—	—
Long-term investments	3,024	3,024	—	—

The following table provides the assets and liabilities carried at fair value measured on a recurring basis as of December 31, 2014 (in thousands):

	Total carrying value as of December 31, 2014	Fair Value Measurements, Using		
		Quoted prices in active markets (Level 1)	Significant other observable inputs (Level 2)	Significant unobservable inputs (Level 3)
Cash equivalents	\$970	\$970	\$—	\$—
Short-term investments	243,088	243,088	—	—
Long-term investments	3,047	3,047	—	—

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities. Level 2 inputs are quoted prices for similar assets and liabilities in active markets or inputs that are observable for the asset or liability, either directly or indirectly through market corroboration, for substantially the full term of the financial instrument. Level 3 inputs are unobservable inputs based on management's own assumptions used to measure assets and liabilities at fair value. A financial asset's or liability's classification is determined based on the lowest level input that is significant to the fair value measurement.

Changes in fair value of the investments are recorded as unrealized gains and losses in other comprehensive income. If a decline in fair value of an investment below its carrying value is deemed to be other than temporary, the carrying value of the Company's investment will be written down by the amount of the other-than-temporary impairment with a resulting charge to net income (loss). There were no other-than-temporary impairments of investments as of September 30, 2015 or December 31, 2014.



Table of Contents

6. RESEARCH AND LICENSE AGREEMENTS WITH PRINCETON UNIVERSITY, UNIVERSITY OF SOUTHERN CALIFORNIA AND THE UNIVERSITY OF MICHIGAN:

The Company funded OLED technology research at Princeton and, on a subcontractor basis, at USC for 10 years under a Research Agreement executed with Princeton in August 1997 (the 1997 Research Agreement). The principal investigator conducting work under the 1997 Research Agreement transferred to Michigan in January 2006. Following this transfer, the 1997 Research Agreement was allowed to expire on July 31, 2007.

As a result of the transfer, the Company entered into a new Sponsored Research Agreement with USC to sponsor OLED technology research at USC and, on a subcontractor basis, Michigan. This new Sponsored Research Agreement (as amended, the 2006 Research Agreement) was effective as of May 1, 2006 and had an original term of three years. On May 1, 2009, the Company amended the 2006 Research Agreement to extend the term of the agreement for an additional four years. The 2006 Research Agreement superseded the 1997 Research Agreement with respect to all work being performed at USC and Michigan. Payments under the 2006 Research Agreement were made to USC on a quarterly basis as actual expenses were incurred. The Company incurred a total of \$5.0 million in research and development expense for work performed under the 2006 Research Agreement during the extended term, which ended on April 30, 2013.

Effective June 1, 2013, the Company amended the 2006 Research Agreement again to extend the term of the agreement for an additional four years. As of September 30, 2015, the Company was obligated to pay USC up to \$3.7 million for work to be actually performed during the remaining extended term, which expires April 30, 2017. From June 1, 2013 through September 30, 2015, the Company incurred \$2.8 million in research and development expense for work performed under the 2006 Research Agreement.

On October 9, 1997, the Company, Princeton and USC entered into an Amended License Agreement (as amended, the 1997 Amended License Agreement) under which Princeton and USC granted the Company worldwide, exclusive license rights, with rights to sublicense, to make, have made, use, lease and/or sell products and to practice processes based on patent applications and issued patents arising out of work performed by Princeton and USC under the 1997 Research Agreement. Under this 1997 Amended License Agreement, the Company is required to pay Princeton royalties for licensed products sold by the Company or its sublicensees. For licensed products sold by the Company, the Company is required to pay Princeton 3% of the net sales price of these products. For licensed products sold by the Company's sublicensees, the Company is required to pay Princeton 3% of the revenues received by the Company from these sublicensees. These royalty rates are subject to renegotiation for products not reasonably conceivable as arising out of the 1997 Research Agreement if Princeton reasonably determines that the royalty rates payable with respect to these products are not fair and competitive.

The Company is obligated, under the 1997 Amended License Agreement, to pay to Princeton minimum annual royalties. The minimum royalty payment is \$100,000 per year. The Company recorded royalty expense in connection with this agreement of \$1.1 million and \$770,000 for the three months ended September 30, 2015 and 2014, respectively, and \$3.6 million and \$3.0 million for the nine months ended September 30, 2015 and 2014, respectively. The Company also is required, under the 1997 Amended License Agreement, to use commercially reasonable efforts to bring the licensed OLED technology to market. However, this requirement is deemed satisfied if the Company invests a minimum of \$800,000 per year in research, development, commercialization or patenting efforts respecting the patent rights licensed to the Company.

In connection with entering into the 2006 Research Agreement, the Company amended the 1997 Amended License Agreement to include Michigan as a party to that agreement effective as of January 1, 2006. Under this amendment, Princeton, USC and Michigan have granted the Company a worldwide exclusive license, with rights to sublicense, to make, have made, use, lease and/or sell products and to practice processes based on patent applications and issued patents arising out of work performed under the 2006 Research Agreement. The financial terms of the 1997 Amended License Agreement were not impacted by this amendment.

Table of Contents**7. ACQUIRED TECHNOLOGY:**

Acquired technology consists of acquired license rights for patents and know-how obtained from PD-LD, Inc., Motorola and Fujifilm. These intangible assets consist of the following (in thousands):

	September 30, 2015
PD-LD, Inc.	\$1,481
Motorola	15,909
Fujifilm	109,462
	126,852
Less: Accumulated amortization	(52,087 )
Acquired technology, net	\$74,765

Amortization expense for all intangible assets was \$2.7 million for both the three months ended September 30, 2015 and 2014, and \$8.2 million for both the nine months ended September 30, 2015 and 2014. Amortization expense is included in the patent costs and amortization of acquired technology expense line item on the Consolidated Statements of Operations.

**Motorola Patent Acquisition**

In 2000, the Company entered into a royalty-bearing license agreement with Motorola whereby Motorola granted the Company perpetual license rights to what are now 74 issued U.S. patents relating to Motorola's OLED technologies, together with foreign counterparts in various countries. These patents will all expire in the U.S. by 2018.

On March 9, 2011, the Company purchased these patents from Motorola, including all existing and future claims and causes of action for any infringement of the patents, pursuant to a Patent Purchase Agreement. The Patent Purchase Agreement effectively terminated the Company's license agreement with Motorola, including any obligation to make royalty payments to Motorola. The technology acquired from Motorola is being amortized over a period of 7.5 years.

**Fujifilm Patent Acquisition**

On July 23, 2012, the Company entered into a Patent Sale Agreement (the Agreement) with Fujifilm and prior to closing the transaction, assigned its rights and obligations under the Agreement to UDC Ireland Limited (UDC Ireland), a wholly-owned subsidiary of the Company formed under the laws of the Republic of Ireland. Under the Agreement, Fujifilm sold more than 1,200 OLED-related patents and patent applications in exchange for a cash payment of \$105.0 million, plus costs incurred in connection with the purchase. The transactions contemplated by the Agreement were consummated on July 26, 2012. The Company recorded the \$105.0 million plus \$4.5 million of costs as acquired technology, which is being amortized over a period of 10 years.

**8. EQUITY AND CASH COMPENSATION UNDER THE PPG AGREEMENTS:**

On September 22, 2011, the Company entered into an Amended and Restated OLED Materials Supply and Service Agreement with PPG Industries effective as of October 1, 2011 (the New OLED Materials Agreement), which replaced the original OLED Materials Agreement with PPG Industries. The term of the New OLED Materials Agreement runs through December 31, 2015 and shall be automatically renewed for additional one year terms, unless terminated by the Company by providing prior notice of one year or terminated by PPG by providing prior notice of two years. The New OLED Materials Agreement contains provisions that are substantially similar to those of the original OLED Materials Agreement. Under the New OLED Materials Agreement, PPG Industries continues to assist the Company in developing its proprietary OLED materials and supplying the Company with those materials for evaluation purposes and for resale to its customers.

Under the New OLED Materials Agreement, the Company compensates PPG Industries on a cost-plus basis for the services provided during each calendar quarter. The Company is required to pay for some of these services in all cash. Up to 50% of the remaining services are payable, at the Company's sole discretion, in cash or shares of the Company's common stock, with the balance payable in cash. The actual number of shares of common stock issuable to PPG Industries is determined based on the average closing price for the Company's common stock during a specified number of days prior to the end of each calendar half-year period ending on March 31 and September 30. If, however, this average closing price is less than \$20.00, the Company is required to compensate PPG Industries in cash. No shares were issued for services to PPG for the three or nine months ended September 30, 2015 or 2014.

The Company is also to reimburse PPG Industries for raw materials used for research and development. The Company records the purchases of these raw materials as a current asset until such materials are used for research and development efforts.

Table of Contents

The Company recorded research and development expense of \$2.7 million and \$378,000 for the three months ended September 30, 2015 and 2014, respectively, and \$5.7 million and \$7.5 million for the nine months ended September 30, 2015 and 2014, respectively, in relation to the cash portion of the reimbursement of expenses and work performed by PPG Industries, excluding amounts paid for commercial chemicals.

## 9. SHAREHOLDERS' EQUITY:

## Stock Repurchase Program

On June 2, 2014, the Company's Board of Directors approved a stock repurchase program authorizing the Company to purchase shares of its common stock up to a total purchase price of \$50.0 million over the subsequent 12 months. During the period, the Company purchased 956,362 shares at a cost of approximately \$29.5 million. The repurchase program ended during the second quarter of 2015.

## Scientific Advisory Board, Board of Directors and Employee Awards

During the first quarters of 2015 and 2014, the Company granted a total of 35,205 and 31,301 shares, respectively, of fully vested common stock to employees, members of the Board of Directors and non-employee members of the Scientific Advisory Board for services performed in 2014 and 2013, respectively. The fair value of the shares issued was \$967,000 and \$746,000, respectively, for employees and \$300,000 and \$323,000, respectively, for members of the Board of Directors and non-employee members of the Scientific Advisory Board, which amounts were accrued at December 31, 2014 and 2013, respectively. In connection with the issuance of these shares, 9,565 and 8,071 shares, with fair values of \$346,000 and \$271,000, were withheld in satisfaction of employee tax withholding obligations in 2015 and 2014, respectively.

## 10. ACCUMULATED OTHER COMPREHENSIVE LOSS:

Amounts related to the changes in accumulated other comprehensive loss were as follows (in thousands):

	Unrealized loss on marketable securities	Net unrealized loss on retirement plan <sup>(2)</sup>	Total	Affected line items in the consolidated statements of operations
Balance December 31, 2014, net of tax	\$(28	) \$(4,354	) \$(4,382	)
Other comprehensive loss before reclassification	(9	) —	(9	)
Reclassification to net loss <sup>(1)</sup>	—	713	713	Selling, general and administrative and research and development
Change during period	(9	) 713	704	
Balance September 30, 2015, net of tax	\$(37	) \$(3,641	) \$(3,678	)
	Unrealized gain (loss) on marketable securities	Net unrealized loss on retirement plan <sup>(2)</sup>	Total	Affected line items in the consolidated statements of operations
Balance December 31, 2013, net of tax	\$(24	) \$(4,344	) \$(4,368	)
Other comprehensive gain before reclassification	20	—	20	
Reclassification to net income <sup>(1)</sup>	—	275	275	Selling, general and administrative and research and development
Change during period	20	275	295	
Balance September 30, 2014, net of tax	\$(4	) \$(4,069	) \$(4,073	)

(1) The Company reclassified amortization of prior service cost and actuarial loss for its retirement plan from accumulated other comprehensive loss to net income (loss) of \$713,000 and \$275,000 for the nine months ended September 30, 2015 and 2014, respectively.

(2) Refer to Note 12: Supplemental Executive Retirement Plan.

12

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Table of Contents**11. STOCK-BASED COMPENSATION:**

The Company recognizes in the statements of operations the grant-date fair value of equity based awards, such as shares issued under employee stock purchase plans, restricted stock awards, restricted stock units and performance unit awards issued to employees and directors.

The grant-date fair value of stock awards is based on the closing price of the stock on the date of grant. The fair value of share-based awards is recognized as compensation expense on a straight-line basis over the requisite service period, net of forfeitures. The Company issues new shares upon the respective grant, exercise or vesting of share-based payment awards, as applicable.

Performance unit awards are subject to either a performance-based or market-based vesting requirement. For performance-based vesting, the grant-date fair value of the award, based on fair value of the Company's common stock, is recognized over the service period based on an assessment of the likelihood that the applicable performance goals will be achieved, and compensation expense is periodically adjusted based on actual and expected performance. Compensation expense for performance unit awards with market-based vesting is calculated based on the estimated fair value as of the grant date utilizing a Monte Carlo simulation model and is recognized over the service period on a straight-line basis.

**Equity Compensation Plan**

In 1995, the Board of Directors of the Company adopted a stock option plan, which was amended and restated in 2003 and is now called the Equity Compensation Plan. The Equity Compensation Plan provides for the granting of incentive and nonqualified stock options, shares of common stock, stock appreciation rights and performance units to employees, directors and consultants of the Company. Stock options are exercisable over periods determined by the Compensation Committee, but for no longer than 10 years from the grant date. Through September 30, 2015, the Company's shareholders have approved increases in the number of shares reserved for issuance under the Equity Compensation Plan to 10,500,000, and have extended the term of the plan through 2024. At September 30, 2015, there were 2,836,804 shares that remained available to be granted under the Equity Compensation Plan.

**Stock Awards****Restricted Stock Awards and Units**

The Company has issued restricted stock awards and units to employees and non-employee members of the Scientific Advisory Board with vesting terms of one to six years. The fair value is equal to the market price of the Company's common stock on the date of grant for awards granted to employees and equal to the market price at the end of the reporting period for unvested non-employee awards or upon the date of vesting for vested non-employee awards. Expense for restricted stock awards and units is amortized ratably over the vesting period for the awards issued to employees and using a graded vesting method for the awards issued to non-employee members of the Scientific Advisory Board.

During the nine months ended September 30, 2015, the Company granted 792,644 shares of restricted stock awards and restricted stock units to employees and non-employee members of the Scientific Advisory Board, which had a total fair value of \$34.3 million on the respective dates of grant, and will vest over three to six years from the date of grant, provided that the grantee is still an employee of the Company on the applicable vesting date.

For the three months ended September 30, 2015 and 2014, the Company recorded, as compensation charges related to all restricted stock awards and units, selling, general and administrative expense of \$1.9 million and \$949,000, respectively, and research and development expense of \$492,000 and \$421,000, respectively. For the nine months ended September 30, 2015 and 2014, the Company recorded, as compensation charges related to all restricted stock awards and units, selling, general and administrative expense of \$4.4 million and \$2.8 million, respectively, and research and development expense of \$1.4 million and \$1.2 million, respectively.

In connection with the vesting of restricted stock awards and units during the nine months ended September 30, 2015 and 2014, 98,635 and 75,594 shares, with aggregate fair values of \$4.2 million and \$2.6 million, respectively, were withheld in satisfaction of tax withholding obligations.

For the three months ended September 30, 2015 and 2014, the Company recorded as compensation charges related to all restricted stock units to non-employee members of the Scientific Advisory Board whose unvested shares are marked to market each quarter, a research and development credit of \$51,000 and an expense of \$62,000, respectively.



For the nine months ended September 30, 2015 and 2014, the Company recorded as compensation charges related to all restricted stock units to non-employee members of the Scientific Advisory Board, research and development expense of \$223,000 and \$162,000, respectively.

## Table of Contents

### Board of Directors Compensation

The Company has granted restricted stock units to non-employee members of the Board of Directors with quarterly vesting over a period of approximately one year. The fair value is equal to the market price of the Company's common stock on the date of grant. The restricted stock units are issued and expense is recognized ratably over the vesting period. For the three months ended September 30, 2015 and 2014, the Company recorded compensation charges for services performed, related to all restricted stock units granted to non-employee members of the Board of Directors, selling, general and administrative expense of \$210,000 and \$204,000, respectively. For the nine months ended September 30, 2015 and 2014, the Company recorded compensation charges for services performed, related to all restricted stock units granted to non-employee members of the Board of Directors, selling, general and administrative expense of \$595,000 and \$567,000, respectively. In connection with the vesting of the restricted stock, the Company issued 21,667 and 17,500 shares, during the nine months ended September 30, 2015 and 2014, respectively, to non-employee members of the Board of Directors.

### Performance Unit Awards

During the nine months ended September 30, 2015, the Company granted 32,632 performance units, of which 16,315 are subject to a performance-based vesting requirement and 16,317 are subject to a market-based vesting requirement and will vest over the terms described below. Total fair value of the performance unit awards granted was \$1.5 million on the date of grant.

Each performance unit award is subject to both a performance-vesting requirement (either performance-based or market-based) and a service-vesting requirement.

The performance-based vesting requirement is tied to the Company's cumulative revenue growth compared to the cumulative revenue growth of companies comprising the Nasdaq Electronics Components Index, as measured over a specific performance period. The market-based vesting requirement is tied to the Company's total shareholder return relative to the total shareholder return of companies comprising the Nasdaq Electronics Components Index, as measured over a specific performance period.

The maximum number of performance units that may vest based on performance is two times the shares granted. Further, if the Company's total shareholder return is negative, the performance units may not vest at all.

For the three months ended September 30, 2015 and 2014, the Company recorded general and administrative expense of \$219,000 and \$284,000, respectively, and research and development expense of \$58,000 and \$152,000, respectively, related to performance units. For the nine months ended September 30, 2015 and 2014, the Company recorded general and administrative expense of \$723,000 and \$969,000, respectively, and research and development expense of \$200,000 and \$363,000, respectively, related to performance units.

In connection with the vesting of performance units during the nine months ended September 30, 2015, 16,071 shares with an aggregate fair value of \$752,000 were withheld in satisfaction of tax withholding obligations.

### Employee Stock Purchase Plan

On April 7, 2009, the Board of Directors of the Company adopted an Employee Stock Purchase Plan (ESPP). The ESPP was approved by the Company's shareholders and became effective on June 25, 2009. The Company has reserved 1,000,000 shares of common stock for issuance under the ESPP. Unless sooner terminated by the Board of Directors, the ESPP will expire when all reserved shares have been issued.

Eligible employees may elect to contribute to the ESPP through payroll deductions during consecutive three-month purchase periods. Each employee who elects to participate will be deemed to have been granted an option to purchase shares of the Company's common stock on the first day of the purchase period. Unless the employee opts out during the purchase period, the option will automatically be exercised on the last day of the period, which is the purchase date, based on the employee's accumulated contributions to the ESPP. The purchase price will equal 85% of the lesser of the price per share of common stock on the first day of the period or the last day of the period.

Employees may allocate up to 10% of their base compensation to purchase shares of common stock under the ESPP; however, each employee may purchase no more than 12,500 shares on a given purchase date, and no employee may purchase more than \$25,000 of common stock under the ESPP during a given calendar year.

During the nine months ended September 30, 2015 and 2014, the Company issued 9,044 and 9,162 shares, respectively, of its common stock under the ESPP, resulting in proceeds of \$263,000 and \$279,000, respectively.

For the three months ended September 30, 2015 and 2014, the Company recorded charges of \$11,000 and \$12,000, respectively, to selling, general and administrative expense and \$12,000 and \$16,000, respectively, to research and development expense, related to the ESPP equal to the amount of the discount and the value of the look-back feature.

Table of Contents

For the nine months ended September 30, 2015 and 2014, the Company recorded charges of \$32,000 and \$35,000, respectively, to selling, general and administrative expense and \$39,000 and \$41,000, respectively, to research and development expense, related to the ESPP equal to the amount of the discount and the value of the look-back feature.

**12. SUPPLEMENTAL EXECUTIVE RETIREMENT PLAN:**

On March 18, 2010, the Compensation Committee and the Board of Directors of the Company approved and adopted the Universal Display Corporation Supplemental Executive Retirement Plan (SERP), effective as of April 1, 2010. On March 3, 2015, the Compensation Committee and the Board of Directors amended the SERP to include salary and bonus as part of the plan. Prior to this amendment, the SERP benefit did not take into account any bonuses. This change will increase the liability related to the SERP. See the Company's Form 8-K filed on March 9, 2015 for more information regarding the amendments to the SERP. The purpose of the SERP, which is unfunded, is to provide certain of the Company's executive officers with supplemental pension benefits following a cessation of their employment. As of September 30, 2015 there were six participants in the SERP.

The Company records amounts relating to the SERP based on calculations that incorporate various actuarial and other assumptions, including discount rates, rate of compensation increases, retirement dates and life expectancies. The net periodic costs are recognized as employees render the services necessary to earn the SERP benefits.

The components of net periodic pension cost were as follows (in thousands):

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2015	2014	2015	2014
Service cost	\$319	\$167	\$867	\$502
Interest cost	166	106	452	318
Amortization of prior service cost	436	146	1,114	437
Total net periodic benefit cost	\$921	\$419	\$2,433	\$1,257

**13. COMMITMENTS AND CONTINGENCIES:****Commitments**

Under the 2006 Research Agreement with USC, the Company is obligated to make certain payments to USC based on work performed by USC under that agreement, and by Michigan under its subcontractor agreement with USC. See Note 6 for further explanation.

Under the terms of the 1997 Amended License Agreement, the Company is required to make minimum royalty payments to Princeton. See Note 6 for further explanation.

The Company has agreements with seven officers which provide for certain cash and other benefits upon termination of employment of the officer in connection with a change in control of the Company. Each executive is entitled to a lump-sum cash payment equal to two times the sum of the average annual base salary and bonus of the officer and immediate vesting of all stock options and other equity awards that may be outstanding at the date of the change in control, among other items.

In order to manage manufacturing lead times and help ensure adequate material supply, the Company entered into a New OLED Materials Agreement (see note 8) that will allow PPG Industries to procure and produce inventory based upon criteria as defined by the Company. These purchase commitments consist of firm, noncancelable and unconditional commitments. In certain instances, this agreement allows the Company the option to reschedule and adjust the Company's requirements based on its business needs prior to firm orders being placed. As of September 30, 2015 and December 31, 2014, the Company had purchase commitments for inventory of \$12.8 million and \$9.1 million, respectively.

**Patent Related Challenges and Oppositions**

Each major jurisdiction that issues patents provides third parties and applicants an opportunity to seek a further review of an issued patent. The process for requesting and considering such reviews is specific to the jurisdiction that issued the patent in question, and generally does not provide for claims of monetary damages or a review of specific claims of infringement. The conclusions made by the reviewing administrative bodies tend to be appealable and generally are limited in scope and applicability to the specific claims and jurisdiction in question.



Table of Contents

The Company believes that opposition proceedings are frequently commenced in the ordinary course of business by third parties who may believe that one or more claims in a patent do not comply with the technical or legal requirements of the specific jurisdiction in which the patent was issued. The Company views these proceedings as reflective of its goal of obtaining the broadest legally permissible patent coverage permitted in each jurisdiction. Once a proceeding is initiated, as a general matter, the issued patent continues to be presumed valid until the jurisdiction's applicable administrative body issues a final non-appealable decision. Depending on the jurisdiction, the outcome of these proceedings could include affirmation, denial or modification of some or all of the originally issued claims. The Company believes that as OLED technology becomes more established and its patent portfolio increases in size, so will the number of these proceedings.

Below are summaries of certain active proceedings that have been commenced against issued patents that are either exclusively licensed to the Company or which are now assigned to the Company. The Company does not believe that the confirmation, loss or modification of the Company's rights in any individual claim or set of claims that are the subject of the following legal proceedings would have a material impact on the Company's materials sales or licensing business or on the Company's consolidated financial statements, including its consolidated statements of operations, as a whole. However, as noted within the descriptions, some of the following proceedings involve issued patents that relate to the Company's fundamental phosphorescent OLED technologies and the Company intends to vigorously defend against claims that, in the Company's opinion, seek to restrict or reduce the scope of the originally issued claim, which may require the expenditure of significant amounts of the Company's resources. In certain circumstances, when permitted, the Company may also utilize the proceedings to request modification of the claims to better distinguish the patented invention from any newly identified prior art and/or improve the claim scope of the patent relative to commercially important categories of the invention. The entries marked with an "\*" relate to the Company's UniversalPHOLED phosphorescent OLED technology, some of which may be commercialized by the Company.

Opposition to European Patent No. 1394870\*

On April 20, 2010, Merck Patent GmbH; BASF Schweitz AG of Basel, Switzerland; Osram GmbH of Munich, Germany; Siemens Aktiengesellschaft of Munich, Germany; and Koninklijke Philips Electronics N.V., of Eindhoven, The Netherlands filed Notices of Opposition to European Patent No. 1394870 (the EP '870 patent). The EP '870 patent, which was issued on July 22, 2009, is a European counterpart patent, in part, to U.S. patents 6,303,238; 6,579,632; 6,872,477; 7,279,235; 7,279,237; 7,488,542; 7,563,519; and 7,901,795; and to pending U.S. patent application 13/035,051, filed on February 25, 2011 (hereinafter the "U.S. '238 Patent Family"). They are exclusively licensed to the Company by Princeton, and the Company is required to pay all legal costs and fees associated with this proceeding.

An Oral Hearing was held before an EPO panel of first instance in Munich, Germany, on April 8-9, 2014. The panel rejected the original claims and amended the claims to comply with EPO requirements by more narrowly defining the scope of the claims. The '870 patent, in its amended form, was held by the panel to comply with the EPO requirements.

The Company believes the EPO's decision relating to the broad original claims is erroneous and has appealed the ruling to reinstate a broader set of claims. This patent, as originally granted by the EPO, is deemed valid during the pendency of the appeals process.

At this time, based on the Company's current knowledge, the Company believes there is a substantial likelihood that the patent being challenged will be declared valid and that all or a significant portion of the Company's claims will be upheld. However, the Company cannot make any assurances of this result.

Invalidation Trial in Japan for Japan Patent No. 4511024\*

On June 16, 2011, the Company learned that a Request for an Invalidation Trial was filed in Japan for its Japanese Patent No. JP-4511024 (the JP '024 patent), which issued on May 14, 2010. The Request was filed by SEL. The JP '024 patent is a counterpart patent, in part, to the U.S. '238 Patent Family, which relate to the EP '870 patent, which is subject to the above-noted European opposition and which relates to the Company's UniversalPHOLED phosphorescent OLED technology. They are exclusively licensed to the Company by Princeton, and the Company is required to pay all legal costs and fees associated with this proceeding.

On May 10, 2012, the Company learned that the JPO issued a decision upholding the validity of certain claimed inventions in the JP '024 Patent but invalidating the broadest claims in the patent. The Company appealed the JPO's decision to the Japanese IP High Court. On October 31, 2013, the Japanese IP High Court ruled that the prior art references relied on by the JPO did not support the JPO's findings, reversed the JPO's decision with respect to the previously invalidated broad claims in the JP '024 patent and remanded the matter back to the JPO for further consideration consistent with its decision. The JPO subsequently issued a decision upholding the validity of certain claimed inventions in the JP '024 Patent but invalidating the broadest claims in the patent. The Company appealed the decision to reinstate a broader set of claims, but in October 2015, the IP High Court declined to reinstate the broader set of claims. The Company is currently evaluating the IP High Court's decision to determine whether a further appeal to the Japanese Supreme Court is warranted. This patent, as originally granted by the JPO, is deemed valid during the pendency of the appeals process.

Table of Contents

Although the Company cannot provide any assurances as to the possible outcome of future appellate proceedings which the Company may elect to pursue, if any, the patent is expected to be maintained at least with respect to the narrower set of claims which were not the subject of the IP High Court's invalidation ruling.

**Opposition to European Patent No. 1390962**

On November 16, 2011, Osram AG and BASF SE each filed a Notice of Opposition to European Patent No. 1390962 (EP '962 patent), which relates to the Company's white phosphorescent OLED technology. The EP '962 patent, which was issued on February 16, 2011, is a European counterpart patent to U.S. patents 7,009,338 and 7,285,907. They are exclusively licensed to the Company by Princeton, and the Company is required to pay all legal costs and fees associated with this proceeding.

The EPO combined the oppositions into a single opposition proceeding and a hearing on this matter has been scheduled for the fourth quarter of 2015.

At this time, based on its current knowledge, the Company believes there is a substantial likelihood that the patent being challenged will be declared valid, and that all or a significant portion of the Company's claims will be upheld. However, the Company cannot make any assurances of this result.

**Opposition to European Patent No. 1933395\***

On February 24 and 27, 2012, Sumitomo, Merck Patent GmbH and BASF SE filed oppositions to the Company's European Patent No. 1933395 (the EP '395 patent). The EP '395 patent is a counterpart patent to the above-noted JP '168 patent, and, in part, to the U.S. '828 Patent Family. This patent is exclusively licensed to the Company by Princeton, and the Company is required to pay all legal costs and fees associated with this proceeding.

At an Oral Hearing on October 14, 2013, the EPO panel issued a decision that affirmed the basic invention and broad patent coverage in the EP '395 patent, but narrowed the scope of the original claims.

On February 26, 2014, the Company appealed the ruling to reinstate a broader set of claims. The patent, as originally granted by the EPO, is deemed to be valid during the pendency of the appeals process. Two of the three opponents also filed their own appeals of the ruling. Sumitomo did not file an appeal within the allotted time, and is therefore no longer a party to the proceedings. Subsequently, in January 2015, Sumitomo withdrew its opposition of the '395 patent, and the EPO accepted the withdrawal notice. The EPO also issued a notice that the appeal proceedings will proceed with the two remaining opponents.

In addition to the above proceedings and now-concluded proceedings which have been referenced in prior filings, from time to time, the Company may have other proceedings that are pending which relate to patents the Company acquired as part of the Fujifilm Patent acquisition or which to relate to technologies that are not currently widely utilized in the marketplace.

**14. CONCENTRATION OF RISK:**

Included in technology development and support revenue in the accompanying statement of operations is \$67,000 and none for the three months ended September 30, 2015 and 2014, respectively, and \$110,000 and \$117,000 for the nine months ended September 30, 2015 and 2014, respectively, of revenue which was derived from contracts with United States government agencies. Revenues derived from contracts with United States government agencies represented less than 1% of the consolidated revenue for all periods presented.

Revenues and accounts receivable from the Company's largest non-government customers were as follows (in thousands):

Customer	% of Revenues for the three months ended September 30,		% of Revenues for the nine months ended September 30,		Accounts Receivable as of September 30, 2015
	2015	2014	2015	2014	
A	48%	31%	29%	22%	\$15,585
B	39%	37%	56%	49%	\$10,165
C	4%	18%	7%	21%	\$544



Table of Contents

Revenues from outside of North America represented approximately 99% of the consolidated revenue for both the three months ended September 30, 2015 and 2014, and approximately 99% of the consolidated revenue for both the nine months ended September 30, 2015 and 2014. Revenues by geographic area are as follows (in thousands):

Country	Three Months Ended September 30,		Nine Months Ended September 30,	
	2015	2014	2015	2014
South Korea	\$34,536	\$22,511	\$110,600	\$94,729
Japan	3,252	9,279	13,878	37,241
Other non-U.S. locations	1,366	984	3,249	2,439
Total non-U.S. locations	\$39,154	\$32,774	\$127,727	\$134,409
United States	265	118	1,007	448
Total revenue	\$39,419	\$32,892	\$128,734	\$134,857

The Company attributes revenue to different geographic areas on the basis of the location of the customer.

Long-lived assets (net), by geographic area are as follows (in thousands):

	September 30, 2015	December 31, 2014
United States	\$21,242	\$19,763
Other	248	159
Total long-lived assets	\$21,490	\$19,922

Substantially all chemical materials were purchased from one supplier. See Note 8.

#### 15. INCOME TAXES:

The Company is subject to income taxes in the United States and foreign jurisdictions. The effective income tax rate was 17.9% and 154.9%, respectively, for the three and nine months ended September 30, 2015. The annual effective tax rate is estimated based on projected pre-tax income (loss) by legal entity and by tax jurisdiction for the full year. The Company's tax provision for interim periods is determined using the estimated annual effective tax rate, adjusted for discrete items arising in that quarter. The Company updates the estimate of the annual effective tax rate each quarter, and if the estimated annual tax rate changes, the Company makes a cumulative adjustment in that quarter. The quarterly tax provision and the quarterly estimated annual effective tax rate are subject to revision caused by changes in the level and mix of income and losses by legal entity and by tax jurisdiction. In addition, the effective tax rate can be volatile when the amount of pretax income (loss) for the quarter and year-to-date approach break-even.

The Company's year-to-date effective tax rate for 2015 exceeds the U.S. statutory rate primarily because of losses arising outside the United States at a subsidiary where the Company does not record a tax benefit. The foreign losses were primarily due to the inventory write-down for UDC Ireland Limited, which expects to incur a loss for 2015, and such loss was not tax benefited as UDC Ireland Limited has a history of losses resulting in a full valuation allowance. The effective tax rate in the future will depend on the level of and portion of profits earned within and outside the United States, and continued levels of valuation allowances. For the three and nine months ended September 30, 2015, income tax expense of \$1.5 million and \$9.6 million, respectively, was recorded primarily related to foreign tax withheld on royalty and license fees paid to the Company and federal income taxes. The effective tax rate of 17.9% for the three months ended September 30, 2015 was favorably impacted by a reduction in the year to date pretax loss for UDC Ireland Limited, and the corresponding reduction in the valuation reserve by \$2.7 million. The effective tax rate of 154.9% for the nine months ended September 30, 2015 continues to reflect the exclusion of the year to date losses for UDC Ireland Limited, which impacts the tax provision by \$6.6 million, or 106.8 percentage points of the effective tax rate.

The effective income tax rate was 31.4% and 31.7%, respectively, for the three and nine months ended September 30, 2014. For the three and nine months ended September 30, 2014, an income tax expense of \$2.0 million and \$13.4 million, respectively, was recorded primarily related to foreign tax withheld on royalty and license fees paid to the Company and federal income taxes.

In assessing the realizability of deferred tax assets, management considers whether it is more likely than not that some portion or all of the deferred tax assets will not be realized. The ultimate realization of deferred tax assets is dependent on the Company's ability to generate future taxable income to obtain benefit from the reversal of temporary differences, net operating loss carryforwards and tax credits. As part of its assessment management considers the

scheduled reversal of deferred tax liabilities, projected future taxable income, and tax planning strategies. At this time there is no evidence to release the valuation allowances that relate to UDC Ireland, foreign tax credits and New Jersey research and development credits.

Table of Contents

The Company does not have any undistributed earnings from foreign subsidiaries due to the losses at the Company's foreign entities.

## 16. NET INCOME (LOSS) PER COMMON SHARE:

Basic net income (loss) per common share is computed by dividing net income (loss) by the weighted-average number of shares of common stock outstanding for the period excluding unvested restricted stock awards, restricted stock units and performance units. Diluted net income (loss) per common share reflects the potential dilution from the exercise or conversion of securities into common stock, the effect of restricted stock units and performance units, and the impact of shares to be issued under the ESPP.

The following table is a reconciliation of net income (loss) and the shares used in calculating basic and diluted net income (loss) per common share for the three and nine months ended September 30, 2015 and 2014 (in thousands, except share and per share data):

	Three Months Ended September 30,		Nine Months ended September 30,	
	2015	2014	2015	2014
Numerator:				
Net income (loss)	\$7,047	\$4,284	\$(3,410)	\$28,728
Denominator:				
Weighted average common shares outstanding – Basic	46,542,556	46,197,713	46,241,578	46,398,644
Effect of dilutive shares:				
Common stock equivalents arising from stock options and ESPP	90,398	286,977	—	359,144
Restricted stock awards and units and performance units	90,419	149,073	—	198,640
Weighted average common shares outstanding – Diluted	46,723,373	46,633,763	46,241,578	46,956,428
Net income (loss) per common share:				
Basic	\$0.15	\$0.09	\$(0.07)	\$0.62
Diluted	\$0.15	\$0.09	\$(0.07)	\$0.61

For the three months ended September 30, 2015 and 2014, the combined effects of unvested restricted stock units, performance unit awards and stock options of 1,000 and 48,347, respectively, were excluded from the calculation of diluted EPS as their impact would have been antidilutive. For the nine months ended September 30, 2015 and 2014, the combined effects of unvested restricted stock units, performance units and stock options of 356,045 and 334,572, respectively, and the impact of shares to be issued under the ESPP, which was minor, were excluded from the calculation of diluted EPS as their impact would have been antidilutive.

Table of Contents

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the consolidated financial statements and related notes above.

CAUTIONARY STATEMENT

CONCERNING FORWARD-LOOKING STATEMENTS

This discussion and analysis contains some "forward-looking statements." Forward-looking statements concern possible or assumed future results of operations, including descriptions of our business strategies and customer relationships. These statements often include words such as "believe," "expect," "anticipate," "intend," "plan," "estimate," "seek," "will," "may," or similar expressions. These statements are based on assumptions that we have made in light of our experience in the industry, as well as our perceptions of historical trends, current conditions, expected future developments and other factors we believe are appropriate in these circumstances.

As you read and consider this discussion and analysis, you should not place undue reliance on any forward-looking statements. You should understand that these statements involve substantial risk and uncertainty and are not guarantees of future performance or results. They depend on many factors that are discussed further in the section entitled (Risk Factors) in our Annual Report on Form 10-K for the year ended December 31, 2014, as supplemented by disclosures, if any, in Item 1A of Part II below. Changes or developments in any of these areas could affect our financial results or results of operations and could cause actual results to differ materially from those contemplated in the forward-looking statements.

All forward-looking statements speak only as of the date of this report or the documents incorporated by reference, as the case may be. We do not undertake any duty to update any of these forward-looking statements to reflect events or circumstances after the date of this report or to reflect the occurrence of unanticipated events.

OVERVIEW

We are a leader in the research, development and commercialization of organic light emitting diode, or OLED, technologies and materials for use in displays for smartphones, wearables, tablets and televisions, as well as solid-state lighting applications. Since 1994, we have been exclusively engaged, and expect to continue to be primarily engaged, in funding and performing research and development activities relating to OLED technologies and materials, and commercializing these technologies and materials. We derive our revenue from the following:

• sales of OLED materials for evaluation, development and commercial manufacturing;

• intellectual property and technology licensing; and

• technology development and support, including government contract work and support provided to third parties for commercialization of their OLED products.

Material sales relate to our sale of OLED materials for incorporation into our customers' commercial OLED products or for their OLED development and evaluation activities. Material sales are recognized at the time of shipment or at time of delivery, and passage of title, depending upon the contractual agreement between the parties.

We receive license and royalty payments under certain commercial, development and technology evaluation agreements, some of which are non-refundable advances. These payments may include royalty and license fees made pursuant to license agreements and also license fees included as part of certain commercial supply agreements. For arrangements with extended payment terms where the fee is not fixed and determinable, we recognize revenue when the payment is due and payable. Royalty revenue and license fees included as part of commercial supply agreements are recognized when earned and the amount is fixed and determinable.

Currently, our most significant commercial license agreement, which runs through the end of 2017, is with SDC and covers the manufacture and sale of specified OLED display products. Under this agreement, we are being paid a license fee, payable in semi-annual installments over the agreement term of 6.4 years. The installments, which are due in the second and fourth quarter of each year, increase on an annual basis over the term of the agreement. The agreement conveys to SDC the non-exclusive right to use certain of our intellectual property assets for a limited period of time that is less than the estimated life of the assets. Ratable recognition of revenue is impacted by the agreement's extended increasing payment terms in light of our limited history with similar agreements. As a result, revenue is recognized at the lesser of the proportional performance approach (ratable) and the amount of due and

payable fees from SDC. Given the increasing contractual payment schedule, license fees under the agreement are recognized as revenue when they become due and payable, which is currently scheduled to be in the second and fourth quarter of each year.

20

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Table of Contents

At the same time we entered into the current patent license agreement with SDC, we also entered into a new supplemental material purchase agreement with SDC. Under the current supplemental material purchase agreement, SDC agrees to purchase from us a minimum dollar amount of phosphorescent emitter materials for use in the manufacture of licensed products. This minimum purchase commitment is subject to SDC's requirements for phosphorescent emitter materials and our ability to meet these requirements over the term of the supplemental agreement. The minimum purchase amounts increase on an annual basis over the term of the supplemental agreement. These amounts were determined through negotiation based on a number of factors, including, without limitation, estimates of SDC's OLED business growth as a percentage of published OLED market forecasts and SDC's projected minimum usage of red and green phosphorescent emitter materials over the term of the agreement. In the first quarter of 2015, we entered into an OLED patent license agreement and an OLED commercial material supply agreement with LG Display Co., Ltd. (LG Display). The agreements have a term that is set to expire at the end of 2022. The patent license agreement provides LG Display a non-exclusive, royalty bearing portfolio license to make and sell OLED displays under the Company's patent portfolio. The patent license calls for license fees, prepaid royalties and running royalties on licensed products. The agreements include customary provisions relating to warranties, indemnities, confidentiality, assignability and business terms. The agreements provide for certain other minimum obligations relating to the volume of material sales anticipated over the term of the agreements, if certain conditions are met, as well as minimum royalty revenue to be generated under the patent license agreement. The Company expects to generate revenue under these agreements that are predominantly tied to LG Display's sales of OLED licensed products. The OLED commercial supply agreement provides for the sale of material for use by LG Display, which may include phosphorescent emitter and host materials.

Technology development and support revenue is revenue earned from government contracts, development and technology evaluation agreements and commercialization assistance fees, which includes reimbursements by government entities for all or a portion of the research and development costs we incur in relation to our government contracts. Revenues are recognized proportionally as research and development costs are incurred, or as defined milestones are achieved.

While we have made significant progress over the past few years developing and commercializing our family of OLED technologies (including our PHOLED, TOLED, FOLED technologies) and materials, and have generated net income over the past three years, we incurred significant losses prior to this period resulting in an accumulated deficit of \$91.7 million as of September 30, 2015.

We anticipate fluctuations in our annual and quarterly results of operations due to uncertainty regarding, among other factors:

- the timing, cost and volume of sales of our OLED materials;
- the timing of our receipt of license fees and royalties, as well as fees for future technology development and evaluation;
- the timing and magnitude of expenditures we may incur in connection with our ongoing research and development and patent-related activities; and
- the timing and financial consequences of our formation of new business relationships and alliances.

#### Inventory write-down

During the second quarter of 2015, the Company experienced a faster-than-anticipated decline in host material sales, which we believe was a result of our customer's selling new products that did not include our host materials. Based on the most recent sales forecast, we determined that there were likely to be significantly lower sales of our existing host material. As such, a write-down in net realizable value of our inventory during the second quarter was required.

Table of Contents

The following unaudited selected financial data table details our reconciliation of non-GAAP measures to the most directly comparable GAAP measures:

(unaudited, in thousands, except share and per share data)	Three Months Ended		Nine Months Ended	
	September 30, 2015	2014	September 30, 2015	2014
<b>GAAP Results:</b>				
Cost of material sales	\$7,246	\$7,388	\$54,913	\$29,236
Operating expenses	31,057	26,812	123,082	93,312
Operating income	8,362	6,080	5,652	41,545
Income before income taxes	8,587	6,250	6,214	42,088
Net income (loss)	7,047	4,284	(3,410)	) 28,728
Net income (loss) per common share, basic	\$0.15	\$0.09	\$(0.07)	) \$0.62
Net income (loss) per common share, diluted	\$0.15	\$0.09	\$(0.07)	) \$0.61
<b>Non-GAAP Reconciling Items:</b>				
Inventory write-down	\$—	\$—	\$33,000	\$—
Tax impact of inventory write-down	(1,104)	) —	(2,964)	) —
<b>Non-GAAP Measures</b>				
Cost of material sales	\$7,246	\$7,388	\$21,913	\$29,236
Operating expenses	31,057	26,812	90,082	93,312
Operating income	8,362	6,080	38,652	41,545
Income before income taxes	8,587	6,250	39,214	42,088
Net income*	5,943	4,284	26,626	28,728
Net income per common share, basic**	\$0.13	\$0.09	\$0.58	\$0.62
Net income per common share, diluted***	\$0.13	\$0.09	\$0.57	\$0.61

\* Non-GAAP net income assumes an effective tax rate of 30.8% and 32.1% for the three and nine months ended September 30, 2015 based on excluding the impact of the inventory write down of \$33 million in the second quarter of 2015 and its related impact on our quarter-to-date and year-to-date effective taxes rates.

\*\* The non-GAAP net income per common share, basic is derived from dividing non-GAAP net income by the number of weighted average shares used in computing basic net income per common share.

\*\*\* The non-GAAP net income per common share, diluted is derived from dividing non-GAAP net income by non-GAAP weighted average shares of 46,870,998 for the nine months ended September 30, 2015, respectively.

**Non-GAAP Measures**

To supplement our selected financial data presented in accordance with U.S. generally accepted accounting principles (GAAP), we use certain non-GAAP measures. These non-GAAP measures include non-GAAP net income, non-GAAP net income per common share, basic and non-GAAP net income per common share, diluted, as well as non-GAAP cost of material sales, non-GAAP operating expenses, non-GAAP operating income and non-GAAP income before income taxes. Reconciliation to the nearest GAAP measures of all non-GAAP measures included in the presentation can be found within the tables detailing the reconciliation of non-GAAP measures to GAAP measures above.

We have provided these non-GAAP measures to enhance investors' overall understanding of our current financial performance, and as a means to evaluate period-to-period comparisons. We believe that these non-GAAP measures provide meaningful supplemental information regarding our financial performance by excluding the effect of the write-down of primarily existing host materials that were not included in our customer's new products. We believe that the non-GAAP measures that exclude the impact of the inventory write down, when viewed with GAAP results, enhance the comparability of results against prior periods and allow for greater transparency of financial results. The presentation of non-GAAP measures is not intended to be considered in isolation or as a substitute for, or superior to, the financial information prepared and presented in accordance with GAAP.





Table of Contents

## RESULTS OF OPERATIONS

Three Months Ended September 30, 2015 Compared to Three Months Ended September 30, 2014

We had operating income of \$8.4 million for the three months ended September 30, 2015, compared to operating income of \$6.1 million for the three months ended September 30, 2014. The increase in operating income was primarily due to the following:

- an increase in revenue of \$6.5 million, due to an increase in material sales; offset by
- an increase in operating expenses of \$4.2 million, mainly due to an increase in research and development expense, as described in more detail below.

We had net income of \$7.0 million (or \$0.15 per basic and diluted share) for the three months ended September 30, 2015, compared to net income of \$4.3 million (or \$0.09 per basic and diluted share) for the three months ended September 30, 2014. The increase in net income was primarily due to an increase in operating income of \$2.3 million and a decrease in income tax expense of \$0.4 million.

Excluding the inventory write-down in the second quarter of 2015 and its related impact on our year-to-date effective tax rate, we had non-GAAP net income of \$5.9 million (or \$0.13 per non-GAAP basic and non-GAAP diluted share) for the three months ended September 30, 2015. See the reconciliation of these non-GAAP amounts to GAAP amounts on page 22.

## Revenue

The following table details our revenues for the three months ended September 30, 2015 and 2014 (in thousands):

	Three Months Ended September 30,		Increase (Decrease)		
	2015	2014	\$	%	
REVENUE:					
Material sales	\$34,128	\$27,494	\$6,634	24	%
Royalty and license fees	5,224	5,357	(133)	(2)	%)
Technology development and support revenue	67	41	26	63	%
Total revenue	\$39,419	\$32,892	\$6,527	20	%

Total revenue for the three months ended September 30, 2015 increased by \$6.5 million compared to the three months ended September 30, 2014. The increase in revenue was primarily the result of an increase in commercial and development material sales, described in more detail below.

## Material sales

The following table details our revenues derived from material sales for the three months ended September 30, 2015 and 2014 (in thousands):

	Three Months Ended September 30,		Increase		
	2015	2014	\$	%	
Material Sales:					
Commercial material sales	\$30,220	\$24,790	\$5,430	22	%
Developmental material sales	3,908	2,704	1,204	45	%
Total material sales	\$34,128	\$27,494	\$6,634	24	%

Commercial material sales for the three months ended September 30, 2015 increased by \$5.4 million compared to the three months ended September 30, 2014, primarily due to an increase in emitter material sales, partially offset by a decrease in host material sales, which is further explained below.

Developmental material sales for the three months ended September 30, 2015 increased by \$1.2 million compared to the three months ended September 30, 2014. The increase in our development material sales was primarily due to an increase in the number of grams sold.



Table of Contents

Material sales included sales of both phosphorescent emitter and host materials which were comprised of the following for the three months ended September 30, 2015 and 2014 (in thousands):

	Three Months Ended September		Increase (Decrease)		
	30, 2015	2014	\$	%	
Material Sales:					
Phosphorescent emitter sales	\$31,453	\$20,183	\$11,270	56	%
Host material sales	2,675	7,311	(4,636)	(63)	)%
Total material sales	\$34,128	\$27,494	\$6,634	24	%

Phosphorescent emitter sales for the three months ended September 30, 2015 increased by \$11.3 million compared to the three months ended September 30, 2014. The increase in emitter sales was due to an increase in the number of grams sold.

Host material sales for the three months ended September 30, 2015 decreased by \$4.6 million compared to the three months ended September 30, 2014. The decline in our host material sales was primarily due to a decrease in the number of grams sold due to what we believe was a result of our customer's continuing to sell new products that do not include our host materials, as well as a reduction in the average price per gram sold. Based on our current sales forecast, we anticipate that sales of existing host material will continue to be reduced. Our customers are not required to purchase our host materials in order to utilize our phosphorescent emitter materials, and the host material sales business continues to be more competitive than the phosphorescent emitter material sales business.

## Royalty and license fees

Royalty and license fees were as follows for the three months ended September 30, 2015 and 2014 (in thousands):

	Three Months Ended September		(Decrease)		
	30, 2015	2014	\$	%	
Royalty and license fees	\$5,224	\$5,357	\$(133)	(2)	)%

Royalty and license fees for the three months ended September 30, 2015 remained essentially flat compared to the three months ended September 30, 2014.

## Technology development and support revenue

Technology development and support revenue were as follows for the three months ended September 30, 2015 and 2014 (in thousands):

	Three Months Ended September		Increase		
	30, 2015	2014	\$	%	
Technology development and support revenue	\$67	\$41	\$26	63	%

Technology development and support revenue for the three months ended September 30, 2015 remained essentially flat compared to the three months ended September 30, 2014. We do not anticipate this to be a material revenue stream in the future.

## Cost of material sales

Cost of commercial material sales were as follows for the three months ended September 30, 2015 and 2014 (in thousands):

	Three Months Ended September 30,		
	2015	2014	
Commercial material sales	\$30,220	\$24,790	
Cost of commercial material sales	6,989	7,388	
% of commercial material sales	23	30	%

Cost of commercial material sales for the three months ended September 30, 2015 decreased slightly by \$0.4 million compared to the three months ended September 30, 2014. The decrease in the cost of our commercial material sales was due to a decrease in commercial host material sales, which have less favorable margins than our emitter materials, offset, to some extent by an increase in commercial emitter material sales. Depending on the amounts, timing and

stage of materials being classified as commercial, we expect cost of materials sales to fluctuate from quarter to quarter.

24

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Table of Contents

Cost of commercial material sales includes the cost of producing materials that have been classified as commercial, shipping costs for such materials, and inventory write-downs, but excludes the cost of producing certain materials which has already been included in research and development expense.

Research and development

We incurred research and development expenses of \$11.4 million for the three months ended September 30, 2015, compared to \$7.9 million for the three months ended September 30, 2014. The increase was primarily due to increased developmental activities from PPG resulting from an increased use of raw materials for development activities, as well as an increase in consulting charges related to product development activities.

Selling, general and administrative

Selling, general and administrative expenses were \$7.2 million for the three months ended September 30, 2015, compared to \$6.6 million for the three months ended September 30, 2014. The increase was primarily due to an increase in personnel related costs.

Patent costs and amortization of acquired technology

Patent costs and amortization of acquired technology were \$4.0 million for the three months ended September 30, 2015, essentially unchanged compared to \$4.1 million for the three months ended September 30, 2014.

Royalty and license expense

Royalty and license expense increased to \$1.1 million for the three months ended September 30, 2015, compared to \$0.8 million for the three months ended September 30, 2014. The increase was mainly due to increased royalties incurred under our amended license agreement with Princeton, USC, and Michigan, resulting from higher sales of qualifying commercial material. See Note 6 in Notes to Consolidated Financial Statements for further discussion.

Income taxes

Income tax expense of \$1.5 million and \$2.0 million for the three months ended September 30, 2015 and 2014, respectively, was recorded primarily related to foreign taxes on royalty and license fees paid to the Company and federal income taxes. The effective income tax rate was 17.9% and 31.4% for the three months ended September 30, 2015 and 2014, respectively. The effective tax rate for the third quarter of 2015 was favorably impacted by a reduction in the estimated annual pretax loss for UDC Ireland Limited, and the corresponding reduction in the valuation allowance by \$2.7 million; as discussed in Note 15 to the consolidated financial statements included herein. The effective tax rate in the future will depend on the level of and portion of profits earned within and outside the United States, and continued levels of valuation allowances. For the three months ended September 30, 2015, absent the inventory write down, there would have been pretax income in all legal entities and all tax jurisdictions. Therefore, the non-GAAP income tax expense includes a tax benefit from net operating loss carryforwards offsetting UDC Ireland Limited's pretax profits resulting in a non-GAAP effective tax rate of 30.8%.

Nine months ended September 30, 2015 Compared to Nine months ended September 30, 2014

We had operating income of \$5.7 million for the nine months ended September 30, 2015, compared to operating income of \$41.5 million for the nine months ended September 30, 2014. The decrease in operating income was primarily due to the following:

an increase in operating expenses of \$29.8 million, which primarily includes a \$25.7 million increase in the cost of material sales due to a \$33.0 million write-down of inventory offset to some extent by a decrease in commercial material sales; and

- an decrease in revenue of \$6.1 million, which reflects a decrease in material sales, partially offset by an increase in royalty and license fees.

We had a net loss of \$3.4 million (or \$0.07 per basic and diluted share) for the nine months ended September 30, 2015, compared to net income of \$28.7 million (or \$0.62 per basic and \$0.61 per diluted share) for the nine months ended September 30, 2014. The decrease in net income was primarily due to:

the decrease in operating income of \$35.9 million, primarily from the \$33.0 million write-down of inventory; offset by

a decrease in income tax expense of \$3.7 million.

Absent the inventory write-down and the associated \$2.7 million reduction of income tax expense, we had non-GAAP net income of \$26.6 million (or \$0.58 per non-GAAP basic and \$0.57 per non-GAAP diluted share) for the nine

months ended September 30, 2015. See the reconciliation of these non-GAAP amounts to GAAP amounts on page 22.

25

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Table of Contents

## Revenue

The following table details our revenues for the nine months ended September 30, 2015 and 2014 (in thousands):

	Nine months ended September 30,		(Decrease) Increase		
	2015	2014	\$	%	
REVENUE:					
Material sales	\$85,270	\$98,746	\$(13,476)	(14)	)%
Royalty and license fees	43,332	35,200	8,132	23	)%
Technology development and support revenue	132	911	(779)	(86)	)%
Total revenue	\$128,734	\$134,857	\$(6,123)	(5)	)%

Total revenue for the nine months ended September 30, 2015 decreased by \$6.1 million compared to the nine months ended September 30, 2014. The decrease in revenue was primarily the result of decreased commercial material sales (mainly host material sales), partially offset by an increase in emitter material sales and an increase in royalty and license fee revenue.

## Material sales

The following table details our revenues derived from material sales for the nine months ended September 30, 2015 and 2014 (in thousands):

	Nine months ended September 30,		(Decrease)		
	2015	2014	\$	%	
Material Sales:					
Commercial material sales	\$77,638	\$90,866	\$(13,228)	(15)	)%
Developmental material sales	7,632	7,880	(248)	(3)	)%
Total material sales	\$85,270	\$98,746	\$(13,476)	(14)	)%

Commercial material sales for the nine months ended September 30, 2015 decreased by \$13.2 million compared to the nine months ended September 30, 2014, primarily due to lower host sales of \$23.7 million, which is further explained below.

Developmental material sales for the nine months ended September 30, 2015 decreased by \$0.2 million compared to the nine months ended September 30, 2014. The decrease in our development material sales was primarily due to a decrease in the average price per gram sold, partially offset by an increase in the number of grams sold.

Material sales included sales of both phosphorescent emitter and host materials which were comprised of the following for the nine months ended September 30, 2015 and 2014 (in thousands):

	Nine months ended September 30,		Increase (Decrease)		
	2015	2014	\$	%	
Material Sales:					
Phosphorescent emitter sales	\$75,000	\$64,777	\$10,223	16	)%
Host material sales	10,270	33,969	(23,699)	(70)	)%
Total material sales	\$85,270	\$98,746	\$(13,476)	(14)	)%

Phosphorescent emitter sales for the nine months ended September 30, 2015 increased by \$10.2 million compared to the nine months ended September 30, 2014. The increase in emitter sales was due to an increase in the number of grams sold.

Host material sales for the nine months ended September 30, 2015 decreased by \$23.7 million compared to the nine months ended September 30, 2014. The decline in our host material sales was primarily due to a decrease in the number of grams sold due to what we believe was a result of our customer's continuing to sell new products that did not include our host materials as well as a reduction in the average price per gram sold. Based on our current sales forecast, we anticipate that sales of existing host material will continue to be reduced. Our customers are not required to purchase our host materials in order to utilize our phosphorescent emitter materials, and the host material sales business continues to be more competitive than the phosphorescent emitter material sales business.





Table of Contents

## Royalty and license fees

Royalty and license fees were as follows for the nine months ended September 30, 2015 and 2014 (in thousands):

	Nine months ended September 30,		Increase		
	2015	2014	\$	%	
Royalty and license fees	\$43,332	\$35,200	\$8,132	23	%

Royalty and license fees for the nine months ended September 30, 2015 increased by \$8.1 million compared to the nine months ended September 30, 2014. The increase was mainly related to the receipt and recognition of \$30.0 million of royalty and license fee payments under our patent and license agreement with SDC, compared to \$25.0 million in the prior period.

## Technology development and support revenue

Technology development and support revenue were as follows for the nine months ended September 30, 2015 and 2014 (in thousands):

	Nine months ended September 30,		(Decrease)		
	2015	2014	\$	%	
Technology development and support revenue	\$132	\$911	\$(779)	(86)	)%

Technology development and support revenue for the nine months ended September 30, 2015 decreased by \$0.8 million compared to the nine months ended September 30, 2014. The decrease was primarily related to a smaller number of government contracts. We do not anticipate this to be a material revenue stream in the future.

## Cost of material sales

Cost of commercial material sales were as follows for the nine months ended September 30, 2015 and 2014 (in thousands):

	Nine months ended September 30,		
	2015	2014	
Commercial material sales	\$77,638	\$90,866	
Cost of commercial material sales	54,502	29,237	
% of commercial material sales	70	% 32	%

Cost of commercial material sales for the nine months ended September 30, 2015 increased by \$25.3 million compared to the nine months ended September 30, 2014. The increase in the cost of our commercial material sales was primarily due to an inventory write-down of \$33.0 million, offset to some extent by a decrease in commercial material sales. During the second quarter of 2015, the Company experienced a faster-than-anticipated decline in host material sales and based on the most recent sales forecast, we determined that there were likely to be significantly lower sales of our existing host material. As such, a write-down in net realizable value of our inventory was performed in the second quarter. Without the write-down and commensurate with the decline in material sales revenue, the cost of commercial material sales would have been \$21.5 million for the nine months ended September 30, 2015, and the cost of commercial material sales as a percent of commercial material sales would have been 28% for the nine months ended September 30, 2015 compared to 32% for the nine months ended September 30, 2014. The increase in commercial material sales margin absent the write-down was due to the decrease in host material sales, which have less favorable margins than our emitter materials. Depending on the amounts, timing and stage of materials being classified as commercial, we expect cost of materials sales to fluctuate from quarter to quarter.

Cost of commercial material sales includes the cost of producing materials that have been classified as commercial and shipping costs for such materials, but excludes the cost of producing certain materials which has already been included in research and development expense.

## Table of Contents

### Research and development

We incurred research and development expenses of \$32.0 million for the nine months ended September 30, 2015, as compared to \$28.6 million for the nine months ended September 30, 2014. The increase was primarily due to an increase in personnel related costs as well as an increase in consulting charges related to product development activities.

### Selling, general and administrative

Selling, general and administrative expenses were \$20.1 million for the nine months ended September 30, 2015, compared to \$19.6 million for the nine months ended September 30, 2014. The increase was primarily due to an increase in personnel related costs.

### Patent costs and amortization of acquired technology

Patent costs and amortization of acquired technology decreased to \$12.5 million for the nine months ended September 30, 2015, compared to \$12.8 million for the nine months ended September 30, 2014. The decrease relates to a decrease in patent costs mainly due to lower legal expenses.

### Royalty and license expense

Royalty and license expense increased to \$3.6 million for the nine months ended September 30, 2015, compared to \$3.1 million for the nine months ended September 30, 2014. The increase was mainly due to increased royalties incurred under our amended license agreement with Princeton, USC, and Michigan, resulting from higher qualifying material sales and increased royalty and license fees. See Note 6 in Notes to Consolidated Financial Statements for further discussion.

### Income taxes

Income tax expense of \$9.6 million and \$13.4 million was recorded for the nine months ended September 30, 2015 and 2014, respectively, primarily related to foreign taxes withheld on royalty and license fees paid to the Company and federal income taxes. The effective income tax rate was 154.9% and 31.7% for the nine months ended September 30, 2015 and 2014, respectively. The Company's year-to-date effective tax rate for 2015 exceeds the U.S. statutory rate primarily because of losses arising outside the United States at a subsidiary where the Company does not record a tax benefit. The foreign losses were primarily due to the inventory write-down for UDC Ireland Limited, which expects to incur a loss for 2015, and such loss was not tax benefited as UDC Ireland Limited has a history of losses resulting in a full valuation allowance. The effective tax rate in the future will depend on the level of and portion of profits earned within and outside the United States, and continued levels of valuation allowances.

For the nine months ended September 30, 2015, absent the inventory write-down, income tax expense would have been \$12.6 million and the effective income tax rate would have been 32.1%. The non-GAAP effective tax rate is lower than the effective tax rate computed under GAAP as the GAAP rate excludes the tax benefit from losses at UDC Ireland Limited. On a non-GAAP basis the Company expects income in all legal entities and all tax jurisdictions and therefore, includes UDC Ireland Limited's effective tax rate on pretax profits after utilizing net operating loss carryforwards in determining the Company's overall effective the tax rate.

### Liquidity and Capital Resources

Our principle sources of liquidity are our cash and cash equivalents and our short-term investments. As of September 30, 2015, we had cash and cash equivalents of \$90.0 million and short-term investments of \$271.6 million, for a total of \$361.6 million. This compares to cash and cash equivalents of \$45.4 million and short-term investments of \$243.1 million, for a total of \$288.5 million, as of December 31, 2014. The increase in cash and cash equivalents of \$44.5 million was primarily due to cash provided by operating activities related to proceeds received from deferred revenue arrangements offset by cash used in investing and financing activities.

Cash provided by operating activities was \$80.6 million for the nine months ended September 30, 2015, compared to \$18.8 million for the nine months ended September 30, 2014. The increase in cash provided by operating activities was primarily due to the following changes from the comparable prior period:

- the receipt of \$45.0 million from customers for prepaid royalty and license fees recognized as deferred revenue; and
- the impact of the timing of net inventory purchases of \$9.7 million; primarily offset by
- the impact of the payments of accounts payable and accrued expenses of \$4.3 million

Cash used in investing activities was \$32.7 million for the nine months ended September 30, 2015, compared to \$27.9 million for the nine months ended September 30, 2014. The increase in cash used in investing activities was mainly due to the timing of maturities and purchases of investments resulting in net purchases of \$28.0 million for the nine months ended September 30, 2015, compared to net purchases of \$23.7 million for the nine months ended September 30, 2014.

28

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## Table of Contents

Cash used in financing activities was \$3.4 million for the nine months ended September 30, 2015, compared to \$24.1 million for the nine months ended September 30, 2014. The decrease in cash used in financing activities was primarily due to the fact that there were no repurchases of common stock during the nine months ended September 30, 2015 compared to \$22.5 million of repurchases of common stock in the nine months ended September 30, 2014. This was offset by an increase in the payment of withholding taxes related to employee stock-based compensation of \$2.5 million in the nine months ended September 30, 2015 compared to the nine months ended September 30, 2014. Working capital was \$379.6 million as of September 30, 2015, compared to \$343.7 million as of December 31, 2014. The increase in working capital was primarily due to the increase in cash and cash equivalents, an increase in short-term investments, an increase in accounts receivable, offset by a decrease in deferred income taxes, a decrease in inventory and an increase in deferred revenue.

We anticipate, based on our internal forecasts and assumptions relating to our operations (including, among others, assumptions regarding our working capital requirements, the progress of our research and development efforts, the availability of sources of funding for our research and development work, and the timing and costs associated with the preparation, filing, prosecution, maintenance, defense and enforcement of our patents and patent applications), that we have sufficient cash, cash equivalents and short-term investments to meet our obligations for at least the next twelve months.

We believe that potential additional financing sources for us include long-term and short-term borrowings, public and private sales of our equity and debt securities and the receipt of cash upon the exercise of outstanding stock options. It should be noted, however, that additional funding may be required in the future for research, development and commercialization of our OLED technologies and materials, to obtain, maintain and enforce patents respecting these technologies and materials, and for working capital and other purposes, the timing and amount of which are difficult to ascertain. There can be no assurance that additional funds will be available to us when needed, on commercially reasonable terms or at all, particularly in the current economic environment.

### Critical Accounting Policies and Estimates

The discussion and analysis of our financial condition and results of operations is based on our consolidated financial statements, which have been prepared in accordance with U.S. generally accepted accounting principles. The preparation of these financial statements requires us to make estimates and judgments that affect our reported assets and liabilities, revenues and expenses, and other financial information. Actual results may differ significantly from our estimates under other assumptions and conditions.

We believe that our accounting policies related to revenue recognition and deferred revenue, the valuation and recoverability of acquired technology and inventories, stock-based compensation, income taxes and our Supplemental Executive Retirement Plan, are our “critical accounting policies” as contemplated by the SEC.

Refer to our Annual Report on Form 10-K for the year ended December 31, 2014, for additional discussion of our critical accounting policies.

### Contractual Obligations

Refer to our Annual Report on Form 10-K for the year ended December 31, 2014 for a discussion of our contractual obligations.

### Off-Balance Sheet Arrangements

As of September 30, 2015, we had no off-balance sheet arrangements in the nature of guarantee contracts, retained or contingent interests in assets transferred to unconsolidated entities (or similar arrangements serving as credit, liquidity or market risk support to unconsolidated entities for any such assets), or obligations (including contingent obligations) arising out of variable interests in unconsolidated entities providing financing, liquidity, market risk or credit risk support to us, or that engage in leasing, hedging or research and development services with us.

### ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We do not utilize financial instruments for trading purposes and hold no derivative financial instruments, other financial instruments or derivative commodity instruments that could expose us to significant market risk other than our investments disclosed in “Fair Value Measurements” in Note 5 to the Consolidated Financial Statements included herein. We generally invest in investment grade financial instruments to reduce our exposure related to investments. Our primary market risk exposure with regard to such financial instruments is to changes in interest rates,

which would impact interest income earned on investments. However, based upon the conservative nature of our investment portfolio and current experience, we do not believe a decrease in investment yields would have a material negative effect on our interest income.

29

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Table of Contents

Substantially all our revenue is derived from outside of North America. All revenue is primarily denominated in U.S. dollars and therefore we bear no significant foreign exchange risk.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures as of September 30, 2015. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures, as of the end of the period covered by this report, are effective to provide reasonable assurance that the information required to be disclosed by us in reports filed or submitted under the Securities Exchange Act of 1934, as amended, is (i) recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and (ii) accumulated and communicated to our management, including the Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding disclosure. However, a controls system, no matter how well designed and operated, cannot provide absolute assurance that the objectives of the controls system are met, and no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within a company have been detected.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting during the quarter ended September 30, 2015 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II – OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

Patent Related Challenges and Oppositions

Each major jurisdiction that issues patents provides third parties and applicants an opportunity to seek a further review of an issued patent. The specific process for requesting and considering such reviews are specific to the jurisdiction that issued the patent in question, and generally do not include claims for monetary damages or specific claims of infringement. The conclusions made by the reviewing administrative bodies tend to be appealable and generally are limited in scope and applicability to the specific claims and jurisdiction in question.

We believe that opposition proceedings are frequently commenced in the ordinary course of business by third parties who may believe that one or more claims in a patent do not comply with the technical or legal requirements of the specific jurisdiction in which the patent was issued. We view these proceedings as reflective of our goal of obtaining the broadest legally permissible patent coverage permitted in each jurisdiction. Once a proceeding is initiated, as a general matter, the issued patent continues to be presumed valid until the jurisdiction's applicable administrative body issues a final non-appealable decision. Depending on the jurisdiction, the outcome of these proceedings could include affirmation, denial or modification of some or all of the originally issued claims. We believe that as OLED technology becomes more established and as our patent portfolio increases in size, so will the number of these proceedings.

Below are summaries of certain active proceedings that have been commenced against issued patents that are either exclusively licensed to us or which are now assigned to us. We do not believe that the confirmation, loss or modification of our rights in any individual claim or set of claims that are the subject of the following legal proceedings would have a material impact on our materials sales or licensing business or on our consolidated financial statements, including our consolidated statements of operations, as a whole. However, as noted within the descriptions, some of the following proceedings involve issued patents that relate to our fundamental phosphorescent OLED technologies and we intend to vigorously defend against claims that, in our opinion, seek to restrict or reduce the scope of the originally issued claim, which may require the expenditure of significant amounts of our resources. In certain circumstances, when permitted, we may also utilize the proceedings to request modification of the claims to better distinguish the patented invention from any newly identified prior art and/or improve the claim scope of the patent relative to commercially important categories of the invention. The entries marked with an "\*" relate to our UniversalPHOLED phosphorescent OLED technology, some of which may be commercialized by us.

Table of Contents

Opposition to European Patent No. 1394870\*

On April 20, 2010, Merck Patent GmbH; BASF Schweitz AG of Basel, Switzerland; Osram GmbH of Munich, Germany; Siemens Aktiengesellschaft of Munich, Germany; and Koninklijke Philips Electronics N.V., of Eindhoven, The Netherlands filed Notices of Opposition to European Patent No. 1394870 (the EP '870 patent). The EP '870 patent, which was issued on July 22, 2009, is a European counterpart patent, in part, to U.S. patents 6,303,238; 6,579,632; 6,872,477; 7,279,235; 7,279,237; 7,488,542; 7,563,519; and 7,901,795; and to pending U.S. patent application 13/035,051, filed on February 25, 2011 (hereinafter the "U.S. '238 Patent Family"). They are exclusively licensed to us by Princeton, and we are required to pay all legal costs and fees associated with this proceeding. An Oral Hearing was held before an EPO panel of first instance in Munich, Germany, on April 8-9, 2014. The panel decided that the broad claims originally issued did not satisfy EPO requirements and amended the claims to more narrowly define the scope of the claims. The '870 patent, in its amended form, was held by the panel to comply with EPO requirements.

We believe the EPO's decision relating to the broad original claims is erroneous and have appealed the ruling to reinstate a broader set of claims. This patent, as originally granted by the EPO, is deemed valid during the pendency of the appeals process.

At this time, based on our current knowledge, we believe there is a substantial likelihood that the patent being challenged will be declared valid and that all or a significant portion of our claims will be upheld. However, we cannot make any assurances of this result.

Invalidation Trial in Japan for Japan Patent No. 4511024\*

On June 16, 2011, we learned that a Request for an Invalidation Trial was filed in Japan for our Japanese Patent No. JP-4511024 (the JP '024 patent), which issued on May 14, 2010. The Request was filed by SEL. The JP '024 patent is a counterpart patent, in part, to the U.S. '238 Patent Family, which relate to the EP '870 patent, which is subject to the above-noted European opposition and which relates to our UniversalPHOLED phosphorescent OLED technology. They are exclusively licensed to us by Princeton, and we are required to pay all legal costs and fees associated with this proceeding.

On May 10, 2012, we learned that the JPO issued a decision upholding the validity of certain claimed inventions in the JP '024 Patent but invalidating the broadest claims in the patent. We appealed the JPO's decision to the Japanese IP High Court. On October 31, 2013, the Japanese IP High Court ruled that the prior art references relied on by the JPO did not support the JPO's findings, reversed the JPO's decision with respect to the previously invalidated broad claims in the JP '024 patent and remanded the matter back to the JPO for further consideration consistent with its decision. The JPO subsequently issued a decision upholding the validity of certain claimed inventions in the JP '024 Patent but invalidating the broadest claims in the patent. We appealed the decision to reinstate a broader set of claims but in October 2015, the IP High Court declined to reinstate the broader set of claims. The Company is currently evaluating the IP High Court's decision to determine whether further appeal to the Japanese Supreme Court is warranted. This patent, as originally granted by the JPO, is deemed valid during the pendency of the appeals process.

Although we cannot provide any assurances as to the possible outcome of future appellate proceedings which we may elect to pursue, if any, the patent is expected to be maintained at least with respect to the narrower set of claims which were not the subject of the IP High Court's invalidation ruling.

Opposition to European Patent No. 1390962

On November 16, 2011, Osram AG and BASF SE each filed a Notice of Opposition to European Patent No. 1390962 (EP '962 patent), which relates to our white phosphorescent OLED technology. The EP '962 patent, which was issued on February 16, 2011, is a European counterpart patent to U.S. patents 7,009,338 and 7,285,907. They are exclusively licensed to us by Princeton, and we are required to pay all legal costs and fees associated with this proceeding. The EPO combined the oppositions into a single opposition proceeding and a hearing has been scheduled for the fourth quarter of 2015.

At this time, based on our current knowledge, we believe there is a substantial likelihood that the patent being challenged will be declared valid, and that all or a significant portion of our claims will be upheld. However, we cannot make any assurances of this result.

Opposition to European Patent No. 1933395\*

On February 24 and 27, 2012, Sumitomo, Merck Patent GmbH and BASF SE filed oppositions to our European Patent No. 1933395 (the EP '395 patent). The EP '395 patent is a counterpart patent to the above-noted JP '168 patent, and, in part, to the U.S. '828 Patent Family. This patent is exclusively licensed to us by Princeton, and we are required to pay all legal costs and fees associated with this proceeding.

At an Oral Hearing on October 14, 2013, the EPO panel issued a decision that affirmed the basic invention and broad patent coverage in the EP '395 patent, but narrowed the scope of the original claims.



Table of Contents

On February 26, 2014, we appealed the ruling to reinstate a broader set of claims. The patent, as originally granted by the EPO, is deemed to be valid during the pendency of the appeals process. Two of the three opponents also filed their own appeals of the ruling. Sumitomo did not file an appeal within the allotted time, and is therefore no longer a party to the proceedings. Subsequently, in January 2015, Sumitomo withdrew its opposition of the '395 patent, and the EPO accepted the withdrawal notice. The EPO issued a notice that the appeal proceedings will proceed with the two remaining opponents.

In addition to the above proceedings and now-concluded proceedings which have been referenced in prior filings, from time to time, we may have other proceedings that are pending which relate to patents we acquired as part of the Fuji Patent acquisition or which to relate to technologies that are not currently widely utilized in the marketplace.

**ITEM 1A. RISK FACTORS**

There have been no material changes to the risk factors previously discussed in Part I, Item 1A "Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2014.

**ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS****Share Repurchases**

During the quarter ended September 30, 2015, we acquired 789 shares of common stock through transactions related to the vesting of restricted share awards and units previously granted to our employees. Upon vesting, the employees turned in shares of common stock in amounts sufficient to pay the minimum statutory tax withholding at rates required by the relevant tax authorities.

The following table provides information relating to the shares we received and repurchased during the third quarter of 2015 (dollar amounts in thousands, other than per share amounts):

Period	Total Number of Shares Purchased	Weighted Average Price Paid per Share
July 1 - July 31	398	\$48.87
August 1 - August 31	158	37.57
September 1 - September 30	233	37.57
Total	789	

**ITEM 3. DEFAULTS UPON SENIOR SECURITIES**

None.

**ITEM 4. MINE SAFETY DISCLOSURES**

Not applicable.

**ITEM 5. OTHER INFORMATION**

None.

**ITEM 6. EXHIBITS**

The following is a list of the exhibits filed as part of this report. Where so indicated by footnote, exhibits that were previously filed are incorporated by reference. For exhibits incorporated by reference, the location of the exhibit in the previous filing is indicated parenthetically, together with a reference to the filing indicated by footnote.

Table of Contents

Exhibit Number	Description
10.1*	Equity Retention Agreement between the Registrant and Julie Brown, dated as of September 10, 2015
10.2*	Equity Retention Agreement between the Registrant and Mauro Premutico, dated as of September 10, 2015
31.1*	Certifications of Steven V. Abramson, Chief Executive Officer, as required by Rule 13a-14(a) or Rule 15d-14(a)
31.2*	Certifications of Sidney D. Rosenblatt, Chief Financial Officer, as required by Rule 13a-14(a) or Rule 15d-14(a)
32.1**	Certifications of Steven V. Abramson, Chief Executive Officer, as required by Rule 13a-14(b) or Rule 15d-14(b), and by 18 U.S.C. Section 1350. (This exhibit shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liability of that section. Further, this exhibit shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended.)
32.2**	Certifications of Sidney D. Rosenblatt, Chief Financial Officer, as required by Rule 13a-14(b) or Rule 15d-14(b), and by 18 U.S.C. Section 1350. (This exhibit shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liability of that section. Further, this exhibit shall not be deemed to be incorporated by reference into any filing under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended.)
101.INS*	XBRL Instance Document
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document
Explanation of footnotes to listing of exhibits:	
*	Filed herewith.
**	Furnished herewith.

Table of Contents

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized:

UNIVERSAL DISPLAY CORPORATION

Date: November 5, 2015

By: /s/ Sidney D. Rosenblatt  
Sidney D. Rosenblatt  
Executive Vice President, Chief Financial  
Officer,  
Treasurer and Secretary