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ADTRAN INC

Form 10-Q

November 06, 2018

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us-gaap:PrivateEquityFundsMember 2018-09-30 0000926282 us-gaap:SubsequentEventMember 2018-10-16
2018-10-16 0000926282 us-gaap:ScenarioForecastMember 2018-11-14 0000926282
us-gaap:SubsequentEventMember 2018-11-05 2018-11-06 0000926282 us-gaap:SubsequentEventMember
2018-11-06

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, DC 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, 2018

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: 000-24612

ADTRAN, Inc.

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or other jurisdiction of
incorporation or organization)
901 Explorer Boulevard

63-0918200

(I.R.S. Employer
Identification No.)

Huntsville, Alabama
(Address of principal executive offices) (Zip Code)
Registrant's telephone number, including area code: (256) 963-8000

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 every Interactive Data File required to be submitted 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 such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

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Large accelerated filer Accelerated filer

Non-accelerated filer Small reporting company

Emerging growth company

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

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

As of October 26, 2018, the registrant had 47,650,245 shares of common stock, \$0.01 par value per share, outstanding.

ADTRAN, Inc.

Quarterly Report on Form 10-Q

For the Three and Nine Months Ended September 30, 2018

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FORWARD LOOKING STATEMENTS

The Private Securities Litigation Reform Act of 1995 provides a safe harbor for forward-looking statements made by or on behalf of ADTRAN. ADTRAN and its representatives may from time to time make written or oral forward-looking statements, including statements contained in this report, our other filings with the Securities and Exchange Commission (SEC) and other communications with our stockholders. Generally, the words, “believe”, “expect”, “intend”, “estimate”, “anticipate”, “will”, “may”, “could” and similar expressions identify forward-looking statements. We caution you that any forward-looking statements made by us or on our behalf are subject to uncertainties and other factors that could cause such statements to be wrong. A list of factors that could materially affect our business, financial condition or operating results is included under “Factors that Could Affect Our Future Results” in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” contained in Item 2 of Part I of this report. They have also been discussed in Item 1A of Part I in our most recent Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 23, 2018 with the SEC. Though we have attempted to list comprehensively these important factors, we caution investors that other factors may prove to be important in the future in affecting our operating results. New factors emerge from time to time, and it is not possible for us to predict all of these factors, nor can we assess the impact each factor or a combination of factors may have on our business.

You are further cautioned not to place undue reliance on these forward-looking statements because they speak only of our views as of the date that the statements were made. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

ADTRAN, INC.

CONSOLIDATED BALANCE SHEETS

(Unaudited)

(In thousands, except per share amounts)

| | September 30, 2018 | December 31, 2017 |
|---|-----------------------|----------------------|
| ASSETS | | |
| Current Assets | | |
| Cash and cash equivalents | \$ 94,173 | \$ 86,433 |
| Short-term investments | 5,912 | 16,129 |
| Accounts receivable, less allowance for doubtful accounts of \$— at September 30, 2018 and December 31, 2017 | 101,865 | 144,150 |
| Other receivables | 30,084 | 26,578 |
| Inventory, net | 106,060 | 122,542 |
| Prepaid expenses and other current assets | 10,428 | 17,282 |
| Total Current Assets | 348,522 | 413,114 |
| Property, plant and equipment, net | 81,457 | 85,079 |
| Deferred tax assets, net | 39,595 | 23,428 |
| Goodwill | 3,492 | 3,492 |
| Other assets | 31,523 | 13,725 |
| Long-term investments | 144,241 | 130,256 |
| Total Assets | \$ 648,830 | \$ 669,094 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current Liabilities | | |
| Accounts payable | \$ 65,032 | \$ 60,632 |
| Unearned revenue | 17,004 | 13,070 |
| Accrued expenses | 14,548 | 13,232 |
| Accrued wages and benefits | 12,604 | 15,948 |
| Income tax payable | 14,340 | 3,936 |
| Total Current Liabilities | 123,528 | 106,818 |
| Non-current unearned revenue | 3,846 | 4,556 |
| Other non-current liabilities | 32,255 | 34,209 |
| Bonds payable | 25,600 | 25,600 |
| Total Liabilities | 185,229 | 171,183 |
| Commitments and contingencies (see Note 15) | | |
| Stockholders' Equity | | |
| Common stock, par value \$0.01 per share; 200,000 shares authorized; 79,652 shares issued and 47,711 shares outstanding at September 30, 2018 and 79,652 shares issued and 48,485 shares outstanding at December 31, 2017 | 797 | 797 |

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| | | |
|--|------------|------------|
| Additional paid-in capital | 265,757 | 260,515 |
| Accumulated other comprehensive loss | (9,564) | (3,295) |
| Retained earnings | 900,324 | 922,178 |
| Less treasury stock at cost: 31,941 and 31,167 shares at September 30, 2018 and December 31, 2017, respectively | (693,713) | (682,284) |
| Total Stockholders' Equity | 463,601 | 497,911 |
| Total Liabilities and Stockholders' Equity | \$ 648,830 | \$ 669,094 |

See accompanying notes to consolidated financial statements.

ADTRAN, INC.

CONSOLIDATED STATEMENTS OF INCOME

(Unaudited)

(In thousands, except per share amounts)

| | Three Months Ended | | Nine Months Ended | |
|---|-----------------------|------------|-----------------------|------------|
| | September 30, 2018 | 2017 | September 30, 2018 | 2017 |
| Sales | | | | |
| Products | \$ 121,043 | \$ 145,467 | \$ 341,359 | \$ 444,607 |
| Services | 19,292 | 39,645 | 47,830 | 95,457 |
| Total Sales | 140,335 | 185,112 | 389,189 | 540,064 |
| Cost of Sales | | | | |
| Products | 69,943 | 73,534 | 208,184 | 229,861 |
| Services | 11,944 | 25,087 | 32,828 | 65,377 |
| Total Cost of Sales | 81,887 | 98,621 | 241,012 | 295,238 |
| Gross Profit | 58,448 | 86,491 | 148,177 | 244,826 |
| Selling, general and administrative expenses | 30,750 | 34,676 | 96,361 | 104,171 |
| Research and development expenses | 29,877 | 33,588 | 93,455 | 99,116 |
| Operating Income (Loss) | (2,179) | 18,227 | (41,639) | 41,539 |
| Interest and dividend income | 825 | 952 | 2,604 | 2,857 |
| Interest expense | (134) | (139) | (398) | (417) |
| Net investment gain | 4,507 | 1,009 | 5,400 | 2,869 |
| Other income (expense), net | 201 | (842) | (73) | (1,427) |
| Gain on bargain purchase of a business | — | — | 11,322 | — |
| Income (Loss) Before Provision for Income Taxes | 3,220 | 19,207 | (22,784) | 45,421 |
| (Provision) benefit for income taxes | 4,369 | (3,309) | 11,889 | (10,471) |
| Net Income (Loss) | \$ 7,589 | \$ 15,898 | \$ (10,895) | \$ 34,950 |
| Weighted average shares outstanding – basic | 47,710 | 47,870 | 47,927 | 48,110 |
| Weighted average shares outstanding – diluted | 47,834 | 48,531 | 47,927 | 48,618 |
| Earnings (loss) per common share – basic | \$ 0.16 | \$ 0.33 | \$ (0.23) | \$ 0.73 |
| Earnings (loss) per common share – diluted | \$ 0.16 | \$ 0.33 | \$ (0.23) | \$ 0.72 |
| Dividend per share | \$ 0.09 | \$ 0.09 | \$ 0.27 | \$ 0.27 |

See accompanying notes to consolidated financial statements.

ADTRAN, INC.

CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(Unaudited)

(In thousands)

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|--|--|----------|---------------------------------------|----------|
| | 2018 | 2017 | 2018 | 2017 |
| Net Income (Loss) | \$7,589 | \$15,898 | \$(10,895) | \$34,950 |
| Other Comprehensive Income (Loss), net of tax | | | | |
| Net unrealized gains (losses) on available-for-sale securities | (32) | 804 | (3,340) | 2,512 |
| Net unrealized gains (losses) on cash flow hedges | — | 142 | — | (196) |
| Defined benefit plan adjustments | 37 | 73 | 104 | 214 |
| Foreign currency translation | (451) | 1,541 | (3,033) | 5,402 |
| Other Comprehensive Income (Loss), net of tax | (446) | 2,560 | (6,269) | 7,932 |
| Comprehensive Income (Loss), net of tax | \$7,143 | \$18,458 | \$(17,164) | \$42,882 |

See accompanying notes to consolidated financial statements.

ADTRAN, INC.

CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited)

(In thousands)

| | Nine Months Ended September 30, | |
|--|------------------------------------|-----------|
| | 2018 | 2017 |
| Cash flows from operating activities: | | |
| Net income (loss) | \$(10,895) | \$34,950 |
| Adjustments to reconcile net income (loss) to net cash provided by operating activities: | | |
| Depreciation and amortization | 11,952 | 12,034 |
| Amortization of net premium on available-for-sale investments | (14) | 352 |
| Net gain on long-term investments | (5,400) | (2,869) |
| Net (gain) loss on disposal of property, plant and equipment | 68 | (10) |
| Gain on bargain purchase of a business | (11,322) | — |
| Stock-based compensation expense | 5,243 | 5,573 |
| Deferred income taxes | (20,368) | — |
| Changes in operating assets and liabilities: | | |
| Accounts receivable, net | 41,166 | (6,975) |
| Other receivables | (1,842) | (2,924) |
| Inventory | 16,543 | (9,483) |
| Prepaid expenses and other assets | 8,722 | (9,647) |
| Accounts payable | 5,223 | (4,727) |
| Accrued expenses and other liabilities | 156 | (2,820) |
| Income tax payable | 9,461 | 8,571 |
| Net cash provided by operating activities | 48,693 | 22,025 |
| Cash flows from investing activities: | | |
| Purchases of property, plant and equipment | (5,695) | (12,304) |
| Proceeds from disposals of property, plant and equipment | — | 16 |
| Proceeds from sales and maturities of available-for-sale investments | 116,757 | 137,272 |
| Purchases of available-for-sale investments | (115,271) | (79,713) |
| Acquisition of business | (7,806) | — |
| Net cash provided by (used in) investing activities | (12,015) | 45,271 |
| Cash flows from financing activities: | | |
| Proceeds from stock option exercises | 1,321 | 6,606 |
| Purchases of treasury stock | (14,185) | (17,348) |
| Dividend payments | (12,976) | (13,031) |
| Net cash used in financing activities | (25,840) | (23,773) |
| Net increase in cash and cash equivalents | 10,838 | 43,523 |
| Effect of exchange rate changes | (3,098) | 4,835 |
| Cash and cash equivalents, beginning of period | 86,433 | 79,895 |
| Cash and cash equivalents, end of period | \$94,173 | \$128,253 |

Supplemental disclosure of non-cash investing activities:

| | | |
|---|-------|-------|
| Purchases of property, plant and equipment included in accounts payable | \$355 | \$272 |
|---|-------|-------|

See accompanying notes to consolidated financial statements.

ADTRAN, INC.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(Unaudited)

(In thousands, except per share amounts)

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation

The accompanying unaudited consolidated financial statements of ADTRAN[®], Inc. and its subsidiaries (ADTRAN) have been prepared pursuant to the rules and regulations for reporting on Quarterly Reports on Form 10-Q. Accordingly, certain information and notes required by generally accepted accounting principles for complete financial statements are not included herein. The December 31, 2017 Consolidated Balance Sheet is derived from audited financial statements, but does not include all disclosures required by accounting principles generally accepted in the United States.

In the opinion of management, all adjustments necessary to fairly state these interim statements have been recorded and are of a normal and recurring nature. The results of operations for an interim period are not necessarily indicative of the results for the full year. The interim statements should be read in conjunction with the financial statements and notes thereto included in ADTRAN's Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 23, 2018 with the SEC.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements, and the reported amounts of revenue and expense during the reporting period. Our more significant estimates include the obsolete and excess inventory reserves, warranty reserves, customer rebates, determination of the deferred revenue components of multiple element sales agreements, estimated costs to complete obligations associated with deferred revenues, estimated income tax provision and income tax contingencies, the fair value of stock-based compensation, impairment of goodwill, valuation and estimated lives of intangible assets, estimated pension liability, fair value of investments, and the evaluation of other-than-temporary declines in the value of investments. Actual amounts could differ significantly from these estimates.

Recent Accounting Pronouncements

In February 2016, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2016-02, *Leases (Topic 842)*. ASU 2016-02 requires an entity to recognize lease assets and lease liabilities on the balance sheet and to disclose key information about the entity's leasing arrangements. In July 2018, the FASB issued ASU 2018-10, *Codification Improvements to Topic 842, Leases*, which clarified certain aspects of ASU 2016-02, as well as, ASU 2018-11, *Leases (Topic 842), Targeted Improvements*, which provides for an optional transition method that allows for the application of current legacy guidance, including its disclosure requirements, in the comparative periods presented in the year of adoption. Otherwise, *Topic 842* must be adopted by a modified retrospective method, with elective reliefs, which requires application of the new guidance for all periods presented. The Company plans to use the optional transition method when adopting the new standard. ASU 2016-02, ASU 2018-10 and ASU 2018-11

are effective for fiscal years beginning after December 15, 2018, and interim periods within those fiscal years. We anticipate the adoption of these ASUs will have a material increase in the assets and liabilities of our consolidated balance sheets; however, we do not believe adoption will have a material effect on our results of operations. We believe the most significant effect relates to our accounting for operating leases for office space.

In June 2016, the FASB issued ASU 2016-13, *Financial Instruments – Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments*. ASU 2016-13 requires the measurement and recognition of expected credit losses for financial instruments held at amortized cost. ASU 2016-13 is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019, with early adoption permitted. We are currently evaluating the effect ASU 2016-13 will have on our consolidated financial statements.

In January 2017, the FASB issued ASU 2017-04, *Intangibles – Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment*. ASU 2017-04 simplifies the measurement of goodwill by eliminating step 2 of the goodwill impairment test. Under ASU 2017-04, entities will be required to compare the fair value of a reporting unit to its carrying amount and recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value. ASU 2017-04 is effective for annual or interim impairment tests performed in fiscal years beginning after December 15, 2019, with early adoption permitted for annual or interim impairment tests performed on testing dates after January 1, 2017. The amendments should be applied prospectively. We are currently evaluating whether to early adopt ASU 2017-04, but we do not expect it will have a material effect on our consolidated financial statements.

In March 2017, the FASB issued ASU 2017-08, *Receivables – Nonrefundable Fees and Other Costs (Subtopic 310-20): Premium Amortization on Purchased Callable Debt Securities*, which shortens the amortization period for the premium on certain purchased callable debt securities to the earliest call date. ASU 2017-08 is effective for fiscal years and interim periods within those fiscal years, beginning after December 15, 2018 with early adoption permitted. The amendments should be applied through a modified-retrospective transition approach that requires a cumulative-effect adjustment directly to retained earnings as of the beginning of the period of adoption. We are currently evaluating the effect of ASU 2017-08, but we do not expect it will have a material effect on our consolidated financial statements.

In August 2017, the FASB issued ASU 2017-12, *Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities*. ASU 2017-12 expands and refines hedge accounting for both financial and non-financial risk components, aligns the recognition and presentation of the effects of hedging instruments and hedge items in the financial statements, and includes certain targeted improvements to ease the application of current guidance related to the assessment of hedge effectiveness. ASU 2017-12 is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018, with early adoption permitted. We are currently evaluating the effect ASU 2017-12 will have on our consolidated financial statements.

In February 2018, the FASB issued ASU 2018-02, *Income Statement – Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Comprehensive Income*. ASU 2018-02 allows for an optional reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the Tax Cuts and Jobs Act of 2017. ASU 2018-02 is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2018, with early adoption permitted. We are currently evaluating whether to reclassify stranded tax effects related to the Tax Cuts and Jobs Act of 2017, but we do not expect ASU 2018-02 will have a material effect on our consolidated financial statements.

In August 2018, the FASB issued ASU 2018-13, *Fair Value Measurement (Topic 820) Disclosure Framework-Changes to the Disclosure Requirements for Fair Value Measurement*, which changes the fair value measurement disclosure requirements of ASC 820, *Fair Value Measurement*. The amendments in this ASU are the result of a broader disclosure project called, *Concepts Statement No. 8 - Conceptual Framework for Financial Reporting — Chapter 8, Notes to Financial Statements*, which the FASB finalized on August 28, 2018. The FASB used the guidance in the Concepts Statement to improve the effectiveness of ASC 820's disclosure requirements. ASU 2018-13 provides users of financial statements with information about assets and liabilities measured at fair value in the statement of financial position or disclosed in the notes to the financial statements. More specifically ASU 2018-13 requires disclosures about the valuation techniques and inputs that are used to arrive at measures of fair value, including judgments and assumptions that are made in determining fair value. In addition, ASU 2018-13 requires disclosures regarding the uncertainty in the fair value measurements as of the reporting date and how changes in fair value measurements affect performance and cash flows. ASU 2018-13 is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019. We are currently evaluating the effect of ASU 2018-13, but we do not expect it will have a material effect on our financial statement disclosures.

In August 2018, the FASB issued ASU 2018-14, *Compensation-Retirement Benefits-Defined Benefit Plans-General (Subtopic 715-20): Disclosure Framework-Changes to the Disclosure Requirements for Defined Benefit Plans*, which makes changes to and clarifies the disclosure requirements related to defined benefit pension and other postretirement plans. ASU 2018-14 requires additional disclosures related to the reasons for significant gains and losses affecting the benefit obligation and an explanation of any other significant changes in the benefit obligation or plan assets that are not otherwise apparent in other disclosures required by ASC 715. ASU 2018-14 also clarifies the guidance in ASC 715 to require disclosure of the projected benefit obligation (PBO) and fair value of plan assets for pension plans with PBOs in excess of plan assets and the accumulated benefit obligation (ABO) and fair value of plan assets for pension plans with ABOs in excess of plan assets. ASU 2018-14 is effective for public business entities for fiscal years ending after December 15, 2020. We are currently evaluating the effect of ASU 2018-14, but we do not expect it will have a material effect on our financial statement disclosures.

In August 2018, the FASB issued ASU 2018-15, *Intangibles-Goodwill and Other-Internal-Use Software (Subtopic 350-40), Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract*. ASU 2018-15 clarifies certain aspects of ASU 2015-05, *Customer's Accounting for Fees Paid in a Cloud Computing Arrangement*. Specifically, ASU 2018-15 aligns the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementations costs incurred to develop or obtain internal use software. ASU 2018-15 is effective for fiscal years, and interim periods within those fiscal years, beginning after December 15, 2019, with early adoption permitted. We are currently evaluating whether to early adopt, but we do not expect it will have a material effect on our consolidated financial statements.

During 2018, we adopted the following accounting standards, which had the following effects on our consolidated financial statements:

In May 2014, the FASB issued ASU 2014-09, *Revenue from Contracts with Customers (Topic 606)*, which supersedes the revenue recognition requirements in Topic 605, *Revenue Recognition*, including most industry-specific revenue recognition guidance throughout the Industry Topics of the Codification. The core principle of ASU 2014-09 is to recognize revenues when promised goods or services are transferred to customers in an amount that reflects the consideration that is expected to be received for those goods or services. In August 2015, the FASB issued ASU 2015-14, which deferred the effective date of ASU 2014-09 to fiscal years beginning after December 31, 2017, and interim periods within those fiscal years, with early adoption permitted for reporting periods beginning after December 15, 2016. Subsequently, the FASB issued ASUs in 2016 containing implementation guidance related to ASU 2014-09, including: ASU 2016-08, *Revenue from Contracts with Customers (Topic 606): Principal versus Agent Considerations (Reporting Revenue Gross versus Net)*, which is intended to improve the operability and understandability of the implementation guidance on principal versus agent considerations; ASU 2016-10, *Revenue from Contracts with Customers (Topic 606): Identifying Performance Obligations and Licensing*, which is intended to clarify two aspects of Topic 606: identifying performance obligations and the licensing implementation guidance; ASU 2016-12, *Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients*, which contains certain provisions and practical expedients in response to identified implementation issues; and ASU 2016-20, *Technical Corrections and Improvements to Topic 606, Revenue from Contracts with Customers*, which is intended to clarify the Codification and/or to correct unintended application of guidance. ASU 2014-09 allows for either full retrospective or modified retrospective adoption. We adopted ASU 2014-09 and the related ASUs on January 1, 2018 using the modified retrospective method, which was applied to all contracts on the date of initial adoption.

These ASUs primarily affected our network implementation service revenue performance obligations and contract costs. We are using the "output method" to measure network implementation services progress, which 1) accelerates revenue recognition for certain performance obligations related to service revenue arrangements that were previously deferred until customer acceptance and 2) requires capitalization and amortization of the incremental costs of obtaining a contract as described below.

In connection with the adoption of the new revenue standard, effective January 1, 2018, we adopted ASC 340-40, *Other Assets and Deferred Costs – Contracts with Customers*, with respect to capitalization and amortization of incremental costs of obtaining a contract. As a result, certain costs of obtaining a contract, including sales commissions, will be capitalized, as the guidance requires the capitalization of all incremental costs incurred to obtain a contract with a customer that it would not have incurred if the contract had not been obtained, provided the costs are recoverable. The primary effect was the capitalization of certain sales commissions for our extended maintenance and support contracts in excess of one year and amortization of those costs over the period that the related revenue is recognized.

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The cumulative effect of the changes made to our Consolidated Balance Sheet on January 1, 2018 for the adoption of ASU 2014-09 and the related ASUs was as follows:

| | Balance at | Adjustments | Balance |
|--------------------------|------------|-------------|------------|
| (In thousands) | December | due to ASU | January |
| | 31, 2017 | 2014-09 | 1, 2018 |
| Other receivables | \$ 26,578 | \$ 374 | \$ 26,952 |
| Deferred tax assets, net | \$ 23,428 | \$ (96) | \$ 23,332 |
| Retained earnings | \$ 922,178 | \$ 278 | \$ 922,456 |

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The effect of the adoption of ASU 2014-09 and the related ASUs on our financial statements was as follows:

| (In thousands) | For the three months ended September 30, 2018 | | |
|--|--|--------------------------------------|--|
| | As Reported | Balances | |
| | | Without Adoption of ASC 606 | Effect of Adoption of ASC 606 |
| Sales | | | |
| Products | \$121,043 | \$120,588 | \$ 455 |
| Services | \$19,292 | \$17,932 | \$ 1,360 |
| Cost of Sales | | | |
| Products | \$69,943 | \$69,754 | \$ 189 |
| Services | \$11,944 | \$11,046 | \$ 898 |
| Income before benefit for income taxes | \$3,220 | \$2,492 | \$ 728 |
| Benefit for income taxes | \$4,369 | \$3,382 | \$ 987 |
| Net income | \$7,589 | \$5,874 | \$ 1,715 |

| (In thousands) | For the nine months ended September 30, 2018 | | |
|--------------------------------------|---|--------------------------------------|--|
| | As Reported | Balances | |
| | | Without Adoption of ASC 606 | Effect of Adoption of ASC 606 |
| Sales | | | |
| Products | \$341,359 | \$341,464 | \$ (105) |
| Services | \$47,830 | \$46,062 | \$ 1,768 |
| Cost of Sales | | | |
| Products | \$208,184 | \$208,480 | \$ (296) |
| Services | \$32,828 | \$31,743 | \$ 1,085 |
| Loss before benefit for income taxes | \$(22,784) | \$(23,658) | \$ 874 |
| Benefit for income taxes | \$11,889 | \$10,938 | \$ 951 |
| Net loss | \$(10,895) | \$(12,720) | \$ 1,825 |

| (In thousands) | As of September 30, 2018 | | |
|----------------|--------------------------|--------------------------------------|--|
| | As Reported | Balances | |
| | | Without Adoption of ASC 606 | Effect of Adoption of ASC 606 |

606

Assets

| | | | |
|-------------------|-----------|-----------|-----------|
| Other receivables | \$30,084 | \$27,917 | \$ 2,167 |
| Inventory | \$106,060 | \$106,402 | \$ (342) |
| Equity | | | |
| Retained earnings | \$900,324 | \$898,499 | \$ 1,825 |

In January 2016, the FASB issued ASU 2016-01, *Financial Instruments — Overall: Recognition and Measurement of Financial Assets and Financial Liabilities*, which addresses certain aspects of the recognition, measurement, presentation and disclosure of financial instruments. Subsequently, the FASB issued ASU 2018-03, *Technical Corrections and Improvements to Financial Instruments – Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*, which issued technical corrections and improvements intended to clarify certain aspects of ASU 2016-01. ASU 2016-01 was effective beginning January 1, 2018 and we now recognize any changes in the fair value of certain equity investments in net income as prescribed by the new standard rather than in other comprehensive income. We adopted ASU 2016-01 on January 1, 2018 using the modified retrospective method, which resulted in a \$3.2 million reclassification of net unrealized gains from accumulated other comprehensive income to opening retained earnings. ASU 2018-03 is effective for us with the interim period beginning after June 15, 2018.

In March 2017, the FASB issued ASU 2017-07, *Compensation – Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost*. ASU 2017-07 amends ASC 715, *Compensation — Retirement Benefits*, to require employers that present a measure of operating income in their statements of earnings to include only the service cost component of net periodic pension cost and net periodic postretirement benefit cost in operating expenses (together with other employee compensation costs). The other components of net benefit cost, including amortization of prior service cost/credit, and settlement and curtailment effects, are to be included in non-operating expenses. We adopted ASU 2017-07 on January 1, 2018. We retrospectively adopted the presentation of service cost separate from other components of net periodic pension costs. As a result, \$0.1 million and \$0.3 million have been reclassified from cost of sales, selling, general and administrative expenses, and research and development expense to other income (expense), net for the three and nine months ended September 30, 2017, respectively.

2. BUSINESS COMBINATIONS

On March 19, 2018, we acquired Sumitomo Electric Lightwave Corp.’s (SEL) North American EPON business and entered into a technology license and OEM supply agreement with Sumitomo Electric Industries, Ltd. (SEI). This acquisition establishes ADTRAN as the North American market leader for EPON solutions for the cable MSO industry and it will accelerate the MSO market’s adoption of our open, programmable and scalable architectures. This transaction was accounted for as a business combination. We have included the financial results of this acquisition in our consolidated financial statements since the date of acquisition. These revenues are included in the Access & Aggregation and Customer Devices categories within the Network Solutions reportable segment.

We recorded a bargain purchase gain of \$11.3 million during the first quarter of 2018, net of income taxes, which is subject to customary working capital adjustments between the parties. The bargain purchase gain of \$11.3 million represents the difference between the fair value of the net assets acquired over the cash paid. SEI, an OEM supplier based in Japan, is the global market leader in EPON. SEI’s Broadband Networks Division, through its SEL subsidiary, operated a North American EPON business that included sales, marketing, support, and region-specific engineering development. The North American EPON market is primarily driven by the Tier 1 cable MSO operators and has developed more slowly than anticipated. Through the transaction, SEI divested its North American EPON assets and established a relationship with ADTRAN. The transfer of these assets to ADTRAN, which included key customer relationships and a required assumption by ADTRAN of relatively low incremental expenses, along with the value of the technology license and OEM supply agreement, resulted in the bargain purchase gain. We have assessed the recognition and measurement of the assets acquired and liabilities assumed based on historical and forecasted data for future periods and we have concluded that our valuation procedures and resulting measures were appropriate.

The preliminary allocation of the purchase price to the estimated fair value of the assets acquired and liabilities assumed at the acquisition date is as follows:

(In thousands)

Assets

| | |
|-------------------|-------|
| Other receivables | \$104 |
|-------------------|-------|

| | |
|--|-----------|
| Inventory | 510 |
| Property, plant and equipment | 392 |
| Intangible assets | 22,100 |
| Total assets acquired | 23,106 |
| Liabilities | |
| Deferred income taxes | (3,978) |
| Total liabilities assumed | (3,978) |
| Total net assets | 19,128 |
| Gain on bargain purchase of a business, net of tax | (11,322) |
| Total purchase price | \$7,806 |

The actual revenue and net loss included in our Consolidated Statements of Income for the three months ended September 30, 2018 and the period March 19, 2018 to September 30, 2018 are as follows:

| (In thousands) | Three Months Ended September 30, 2018 | March 19, 2018 to September 30, 2018 |
|-------------------|---------------------------------------|--------------------------------------|
| Revenue | \$ 1,021 | \$ 2,218 |
| Net income (loss) | \$ 564 | \$ (322) |

The details of the acquired intangible assets are as follows:

| (In thousands) | Value | Life (years) |
|------------------------|-----------|-----------------|
| Customer relationships | \$ 13,400 | 12.0 |
| Licensed technology | 5,900 | 9.0 |
| Supplier relationship | 2,800 | 2.0 |
| Total | \$22,100 | |

The following unaudited supplemental pro forma information presents the financial results as if the acquisition had occurred on January 1, 2017. This unaudited supplemental pro forma information does not purport to be indicative of what would have occurred had the acquisition been completed on January 1, 2017, nor is it indicative of any future results. Aside from revising the 2017 and 2018 net income for the effect of the bargain purchase gain, there were no material, non-recurring adjustments to this unaudited pro forma information.

| (In thousands) | Three Months | | |
|--|--------------------------------|--|------------|
| | Ended September 30, 2017 | Nine Months Ended September 30, 2018 | |
| Pro forma revenue | \$ 187,027 | \$ 390,449 | \$ 545,706 |
| Pro forma net income (loss) | \$ 14,997 | \$(23,431) | \$ 43,826 |
| Pro forma earnings per share - basic | \$ 0.31 | \$(0.49) | \$ 0.91 |
| Pro forma earnings per share - diluted | \$ 0.31 | \$(0.49) | \$ 0.90 |

For the three and nine months ended September 30, 2018, we incurred acquisition and integration related expenses and amortization of acquired intangibles of \$0.7 million and \$1.6 million, respectively, related to this acquisition.

3. REVENUE

Revenue is measured based on the consideration we expect to receive in exchange for transferring goods or providing services to a customer and as performance obligations under the terms of the contract are satisfied. Generally, this occurs with the transfer of control of a product or service to the customer. For transactions where there are multiple performance obligations, we account for individual products and services separately if they are distinct (if a product or service is separately identifiable from other items and if a customer can benefit from it on its own or with other resources that are readily available to the customer). The consideration, including any discounts, is allocated between separate products and services based on their stand-alone selling prices. The stand-alone selling prices are determined based on the prices at which we sell the separate products and services and are allocated based on each item's relative value to the total value of the products and services in the arrangement. For items that are not sold separately, we estimate stand-alone selling prices primarily using the "expected cost plus a margin" approach. Payment terms are typically 30 days. Shipping fees are recorded as revenue and the related cost is included in cost of sales. Sales, value-added, and other taxes collected concurrently with revenue-producing activities are excluded from revenue. Costs of obtaining a contract are capitalized and amortized over the period that the related revenue is recognized if greater than one year. We have elected to apply the practical expedient related to the incremental costs of obtaining

contracts and recognize those costs as an expense when incurred if the amortization period of the assets is one year or less. These costs are included in selling, general and administrative expenses. Capitalized costs with an amortization period greater than one year were immaterial.

The following is a description of the principal activities from which we generate our revenue by reportable segment.

Network Solutions Segment

Network Solutions includes hardware products and next-generation virtualized solutions used in service provider or business networks, as well as prior generation products.

Hardware

The majority of the revenue from this segment is from hardware sales and is recognized when control is transferred to our customers, which is generally when we ship the products. Shipping terms are generally FOB shipping point. Revenue is recorded net of estimated discounts and rebates using historical trends. Customers are typically invoiced when control is transferred and revenue is recognized. Our products generally include assurance-based warranties of 90 days to five years for product defects, which are accrued at the time revenue is recognized.

In certain transactions, we are also the lessor in sales-type lease arrangements for network equipment that have terms of 18 months to five years. These arrangements typically include network equipment, network implementation services and maintenance services. Product revenue for these leases is generally recorded when we transfer control of the product to our customers. Revenue for network implementation and maintenance services is recognized as described below. Customers are typically invoiced and pay in equal installments over the lease term. In relation to these lease agreements, during the three months ended September 30, 2018 and 2017, we recognized revenue of \$4.2 million and \$8.4 million, respectively, and during the nine months ended September 30, 2018 and 2017 we recognized revenue of \$10.5 million and \$15.4 million, respectively.

Services & Support Segment

To complement our Network Solutions segment, we offer a complete portfolio of maintenance, network implementation, and solutions integration and managed services, which include hosted cloud services and subscription services.

Maintenance

Our maintenance service periods range from one month to five years. Customers are typically invoiced and pay for maintenance services at the beginning of the maintenance period. We recognize revenue for maintenance services on a straight-line basis over the maintenance period in services revenue as our customers benefit evenly throughout the contract term and deferred revenues are recorded in current and non-current unearned revenue.

Network Implementation

We recognize revenue for network implementation, which primarily consists of engineering, execution and enablement services, at a point in time when each performance obligation is complete. If we have recognized revenue, but have not billed the customer, the right to consideration is recognized as a contract asset that is included in other receivables in the Consolidated Balance Sheet. The contract asset is transferred to accounts receivable when the completed performance obligation is invoiced to the customer.

As of September 30, 2018, we did not have any significant performance obligations related to customer contracts that had an original expected duration of one year or more, other than maintenance services, which are satisfied over time.

The following table provides information about receivables, contract assets, and unearned revenue from contracts with customers:

(In thousands)

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| | September 30, 2018 | January 1, 2018 |
|------------------------------|-----------------------|--------------------|
| Accounts receivable | \$ 101,865 | \$144,150 |
| Contract assets | \$ 4,564 | \$374 |
| Unearned revenue | \$ 17,004 | \$13,070 |
| Non-current unearned revenue | \$ 3,846 | \$4,556 |

The decrease in accounts receivable is due to the collection of customer specific payment terms that became due in the first quarter of 2018. The increase in the contract asset balance for the nine months ended September 30, 2018 is primarily attributable to revenue recognized that has not yet been billed to the customer during the period. The increase in the unearned revenue balance as of nine months ended September 30, 2018 is primarily attributable to cash payments received or due in advance of satisfying our performance obligations, offset by \$8.9 million of revenues recognized that were included in the unearned revenue balance as of December 31, 2017.

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The following table disaggregates our revenue by major source for the three months ended September 30, 2018:

| (In thousands) | Network Solutions | Services | |
|------------------------------|----------------------|--------------|-----------|
| | | & Support | Total |
| Access & Aggregation | \$76,046 | \$15,855 | \$91,901 |
| Customer Devices | 37,313 | 1,239 | 38,552 |
| Traditional & Other Products | 7,684 | 2,198 | 9,882 |
| Total | \$121,043 | \$19,292 | \$140,335 |

The following table disaggregates our revenue by major source for the nine months ended September 30, 2018:

| (In thousands) | Network Solutions | Services | |
|------------------------------|----------------------|--------------|-----------|
| | | & Support | Total |
| Access & Aggregation | \$220,653 | \$37,670 | \$258,323 |
| Customer Devices | 99,396 | 3,817 | 103,213 |
| Traditional & Other Products | 21,310 | 6,343 | 27,653 |
| Total | \$341,359 | \$47,830 | \$389,189 |

4. INCOME TAXES

Our effective tax rate decreased from an expense of 23.1% in the nine months ended September 30, 2017, to a benefit of 34.9%, excluding the tax effect of the bargain purchase gain, in the nine months ended September 30, 2018. The decrease in the effective tax rate between the two periods is primarily driven by the completion of other tax projects, current year net losses in our domestic business and the effect of the U.S. Tax Cuts and Jobs Act, which was signed into law on December 22, 2017.

5. PENSION BENEFIT PLAN

We maintain a defined benefit pension plan covering employees in certain foreign countries.

The following table summarizes the components of net periodic pension cost for the three and nine months ended September 30, 2018 and 2017:

| (In thousands) | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|----------------|--|-------|---------------------------------------|-------|
| | 2018 | 2017 | 2018 | 2017 |
| Service cost | \$294 | \$327 | \$905 | \$930 |
| Interest cost | 179 | 158 | 551 | 448 |

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| | | | | |
|----------------------------------|-------|-------|---------|-------|
| Expected return on plan assets | (381) | (329) | (1,174) | (935) |
| Amortization of actuarial losses | 61 | 80 | 188 | 228 |
| Net periodic pension cost | \$153 | \$236 | \$470 | \$671 |

The components of net periodic pension cost other than the service cost component are included in the line item "Other income (expense), net" in the Consolidated Statements of Income.

6. STOCK-BASED COMPENSATION

The following table summarizes the stock-based compensation expense related to stock options, performance stock units (PSUs), restricted stock units (RSUs) and restricted stock for the three and nine months ended September 30, 2018 and 2017, which was recognized as follows:

| (In thousands) | Three Months Ended | | Nine Months Ended | |
|--|--------------------|--------------------|--------------------|--------------------|
| | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |
| Stock-based compensation expense included in cost of sales | \$101 | \$97 | \$298 | \$281 |
| Selling, general and administrative expense | 894 | 994 | 2,924 | 3,018 |
| Research and development expense | 645 | 743 | 2,021 | 2,274 |
| Stock-based compensation expense included in operating expenses | 1,539 | 1,737 | 4,945 | 5,292 |
| Total stock-based compensation expense | 1,640 | 1,834 | 5,243 | 5,573 |
| Tax benefit for expense associated with non-qualified options, PSUs, RSUs and restricted stock | (292) | (402) | (1,016) | (1,215) |
| Total stock-based compensation expense, net of tax | \$1,348 | \$1,432 | \$4,227 | \$4,358 |

Stock Options

The following table is a summary of our stock options outstanding as of December 31, 2017 and September 30, 2018 and the changes that occurred during the nine months ended September 30, 2018:

| (In thousands, except per share amounts) | Number of | Weighted Avg. Exercise Price | Weighted Avg. Remaining | |
|---|-----------|------------------------------|---------------------------|---------------------------|
| | | | Contractual Life In Years | Aggregate Intrinsic Value |
| Stock options outstanding, December 31, 2017 | 5,148 | \$ 22.65 | 4.87 | \$ 6,109 |
| Stock options granted | — | \$ — | | |
| Stock options exercised | (85) | \$ 15.48 | | |
| Stock options forfeited | (71) | \$ 16.50 | | |
| Stock options expired | (331) | \$ 25.87 | | |
| Stock options outstanding, September 30, 2018 | 4,661 | \$ 22.64 | 4.12 | \$ 2,730 |
| Stock options vested and expected to vest, September 30, 2018 | 4,661 | \$ 22.64 | 4.12 | \$ 2,730 |
| Stock options exercisable, September 30, 2018 | 3,952 | \$ 23.75 | 3.63 | \$ 1,600 |

The aggregate intrinsic values in the table above represent the total pre-tax intrinsic value (the difference between the closing price of our stock on the last trading day of the quarter and the exercise price, multiplied by the number of in-the-money stock options) that would have been received by the option holders had all option holders exercised their options on September 30, 2018. The aggregate intrinsic value will change based on the fair market value of our stock.

The total pre-tax intrinsic value of options exercised during the three and nine months ended September 30, 2018 was \$0.1 million and \$0.2 million, respectively.

As of September 30, 2018, there was \$1.2 million of unrecognized compensation expense related to unvested stock options, which is expected to be recognized over an average remaining recognition period of 1.0 years.

The fair value of our stock options is estimated using the Black-Scholes model. The determination of the fair value of stock options on the date of grant using the Black-Scholes model is affected by our stock price, as well as assumptions regarding a number of complex and subjective variables that may have a significant impact on the fair value estimate.

There were no stock options granted during the three and nine months ended September 30, 2018 or 2017.

PSUs, RSUs and restricted stock

The following table is a summary of our PSUs, RSUs and restricted stock outstanding as of December 31, 2017 and the changes that occurred during the nine months ended September 30, 2018:

| (In thousands, except per share amounts) | Number | Weighted Avg. |
|--|--------|---------------|
| | of | Grant Date |
| | Shares | Fair Value |
| Unvested PSUs, RSUs and restricted stock outstanding, December 31, 2017 | 1,292 | \$ 21.33 |
| PSUs, RSUs and restricted stock granted | 22 | \$ 17.84 |
| PSUs, RSUs and restricted stock vested | (14) | \$ 20.19 |
| PSUs, RSUs and restricted stock forfeited | (165) | \$ 21.66 |
| Unvested PSUs, RSUs and restricted stock outstanding, September 30, 2018 | 1,135 | \$ 21.23 |

The fair value of our PSUs with market conditions is calculated using a Monte Carlo simulation valuation method. The fair value of RSUs and restricted stock is equal to the closing price of our stock on the date of grant. During the first quarter of 2017, the Compensation Committee of the Board of Directors approved a PSU grant of 0.5 million shares that contain performance conditions. The fair value of these performance-based PSU awards was equal to the closing price of our stock on the date of grant.

As of September 30, 2018, there was \$9.8 million of unrecognized compensation expense related to unvested market-based PSUs, RSUs and restricted stock, which is expected to be recognized over an average remaining recognition period of 2.6 years. In addition, there was \$9.4 million of unrecognized compensation expense related to unvested performance-based PSUs, which will be recognized over the requisite service period of three years as the achievement of the performance objective becomes probable. For the three and nine months ended September 30, 2018, no compensation expense was recognized related to these performance-based PSU awards.

7. INVESTMENTS

Debt Securities and Other Investments

At September 30, 2018, we held the following debt securities and other investments, recorded at either fair value or cost:

| (In thousands) | Amortized Cost | Gross | | Carrying Value |
|------------------------------|-------------------|---------------------|----------------------|-------------------|
| | | Unrealized Gains | Unrealized Losses | |
| Corporate bonds | \$ 25,758 | \$ 13 | \$(209) | \$ 25,562 |
| Municipal fixed-rate bonds | 1,451 | — | (36) | 1,415 |
| Asset-backed bonds | 8,384 | — | (29) | 8,355 |
| Mortgage/Agency-backed bonds | 5,450 | — | (87) | 5,363 |

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| | | | | |
|--|-----------|-------|----------|-----------|
| U.S. government bonds | 19,957 | — | (184) | 19,773 |
| Foreign government bonds | 593 | 2 | — | 595 |
| Available-for-sale debt securities held at fair value | \$ 61,593 | \$ 15 | \$(545) | \$ 61,063 |
| Restricted investment held at cost | | | | 26,700 |
| Other investments held at cost | | | | 520 |
| Total carrying value of available-for-sale investments | | | | \$ 88,283 |

At December 31, 2017, we held the following debt securities and other investments, recorded at either fair value or cost:

| (In thousands) | Amortized Cost | Gross Unrealized GainsLosses | | Carrying Value |
|--|-------------------|------------------------------------|----------|-------------------|
| Corporate bonds | \$ 32,654 | \$ 44 | \$(155) | \$ 32,543 |
| Municipal fixed-rate bonds | 2,902 | 2 | (22) | 2,882 |
| Asset-backed bonds | 6,545 | 1 | (20) | 6,526 |
| Mortgage/Agency-backed bonds | 5,554 | 1 | (46) | 5,509 |
| U.S. government bonds | 14,477 | — | (174) | 14,303 |
| Foreign government bonds | 725 | 5 | — | 730 |
| Available-for-sale debt securities held at fair value | \$ 62,857 | \$ 53 | \$(417) | \$ 62,493 |
| Restricted investment held at cost | | | | 27,800 |
| Other investments held at cost | | | | 547 |
| Total carrying value of available-for-sale investments | | | | \$ 90,840 |

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As of September 30, 2018 our debt securities had the following contractual maturities:

| | Corporate | Municipal fixed-rate | Asset- backed | Mortgage / Agency- backed | U.S. government | Foreign government |
|---------------------|-----------|-------------------------|------------------|------------------------------------|--------------------|-----------------------|
| (In thousands) | bonds | bonds | bonds | bonds | bonds | bonds |
| Less than one year | \$ 2,800 | \$ — | \$3,112 | \$ — | \$ — | \$ — |
| One to two years | 10,122 | 287 | 657 | — | 11,716 | 285 |
| Two to three years | 9,898 | 1,128 | 714 | 425 | 5,565 | 310 |
| Three to five years | 2,742 | — | 2,244 | 1,561 | 2,492 | — |
| Five to ten years | — | — | 445 | 525 | — | — |
| More than ten years | — | — | 1,183 | 2,852 | — | — |
| Total | \$ 25,562 | \$ 1,415 | \$8,355 | \$ 5,363 | \$ 19,773 | \$ 595 |

Actual maturities may differ from contractual maturities because some borrowers have the right to call or prepay obligations with or without call or prepayment penalties.

Realized gains and losses on sales of debt securities are computed under the specific identification method. The following table presents gross realized gains and losses related to our debt securities:

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|--|--|-------|---------------------------------------|----------|
| (In thousands) | 2018 | 2017 | 2018 | 2017 |
| Gross realized gains on debt securities | \$ 24 | \$ 91 | \$ 49 | \$ 148 |
| Gross realized losses on debt securities | (50) | (28) | (365) | (179) |
| Total gain (loss) recognized, net | \$ (26) | \$ 63 | \$ (316) | \$ (31) |

Our investment policy provides limitations for issuer concentration, which limits, at the time of purchase, the concentration in any one issuer to 5% of the market value of our total investment portfolio.

At September 30, 2018, we held a \$26.7 million restricted certificate of deposit that is carried at cost. This investment serves as a collateral deposit against the principal amount outstanding under loans made to ADTRAN pursuant to an Alabama State Industrial Development Authority revenue bond (the Bond), which totaled \$26.7 million at September 30, 2018 and December 31, 2017. At September 30, 2018 and December 31, 2017, the estimated fair value of the Bond using a level 2 valuation technique was approximately \$26.5 million and \$26.7 million, respectively, based on a debt security with a comparable interest rate and maturity and a Standard and Poor's credit rating of AAA. We have the right to set-off the balance of the Bond with the collateral deposit in order to reduce the balance of the indebtedness. The Bond matures on January 1, 2020, and bears interest at the rate of 2% per annum. In conjunction with this program, we are eligible to receive certain economic incentives from the state of Alabama that reduce the amount of payroll withholdings we are required to remit to the state for those employment positions that qualify under this program. We are required to make payments in the amounts necessary to pay the interest on the amounts currently

outstanding. It is our intent to make annual principal payments in addition to the interest amounts that are due.

Marketable Equity Securities

Our marketable equity securities consist of publicly traded stocks or funds measured at fair value.

Prior to January 1, 2018, our marketable equity securities were classified as available-for-sale. Realized gains and losses on marketable equity securities were included in net investment gain (loss). Unrealized gains and losses were recognized in accumulated other comprehensive income, net of deferred taxes, on the balance sheet.

On January 1, 2018, we adopted ASU 2016-01, which requires us to measure all equity investments that do not result in consolidation and are not accounted for under the equity method at fair value, with any changes in fair value recognized in net investment gain (loss). Upon adoption, we reclassified \$3.2 million of net unrealized gains related to marketable equity securities from accumulated other comprehensive income (loss) to opening retained earnings.

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Realized and unrealized gains and losses for our marketable equity securities for the three and nine months ended September 30, 2018 were as follows:

| (In thousands) | Three Months Ended September 30, 2018 | Nine Months Ended September 30, 2018 |
|---|--|---|
| Realized gains (losses) on equity securities sold | \$ 1,240 | \$ 1,587 |
| Unrealized gains (losses) on equity securities held | 3,293 | 4,129 |
| Total gain (loss) recognized, net | \$ 4,533 | \$ 5,716 |

As of September 30, 2018 and 2017, gross unrealized losses related to individual investments in a continuous loss position for twelve months or longer were not significant.

We have categorized our cash equivalents and our investments held at fair value into a three-level fair value hierarchy based on the priority of the inputs to the valuation technique for the cash equivalents and investments as follows: Level 1 - Values based on unadjusted quoted prices for identical assets or liabilities in an active market; Level 2 - Values based on quoted prices in markets that are not active or model inputs that are observable either directly or indirectly; Level 3 - Values based on prices or valuation techniques that require inputs that are both unobservable and significant to the overall fair value measurement. These inputs include information supplied by investees.

Fair Value Measurements at September 30, 2018
Using

| (In thousands) | Quoted Prices in Active Market for Identical Assets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) |
|------------------------------------|--|---|--|
| Cash equivalents | \$ 1,423 | \$ 1,423 | \$ — |
| Money market funds | 600 | — | 600 |
| Foreign government securities | 2,023 | 1,423 | 600 |
| Cash equivalents | | | — |
| Available-for-sale debt securities | | | |

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| | | | | |
|---|------------|-----------|-----------|------|
| Corporate bonds | 25,562 | — | 25,562 | — |
| Municipal fixed-rate bonds | 1,415 | — | 1,415 | — |
| Asset-backed bonds | 8,355 | — | 8,355 | — |
| Mortgage/Agency-backed bonds | 5,363 | — | 5,363 | — |
| U.S. government bonds | 19,773 | 19,773 | — | — |
| Foreign government bonds | 595 | — | 595 | — |
| Marketable equity securities | | | | — |
| Marketable equity securities – various industries | 40,645 | 40,645 | — | — |
| Equity in escrow | 277 | 277 | — | — |
| Deferred compensation plan assets | 20,948 | 20,948 | — | — |
| Available-for-sale securities | 122,933 | 81,643 | 41,290 | — |
| Total | \$ 124,956 | \$ 83,066 | \$ 41,890 | \$ — |

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Fair Value Measurements at December 31, 2017
Using

| | Fair Value | Quoted Prices | | |
|---|------------|---|---|---|
| | | in Active Market for Identical Assets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) |
| (In thousands) | | | | |
| Cash equivalents | | | | |
| Money market funds | \$5,851 | \$5,851 | \$ — | \$ — |
| Commercial paper | 3,999 | — | 3,999 | — |
| Cash equivalents | 9,850 | 5,851 | 3,999 | — |
| Available-for-sale debt securities | | | | |
| Corporate bonds | 32,543 | — | 32,543 | — |
| Municipal fixed-rate bonds | 2,882 | — | 2,882 | — |
| Asset-backed bonds | 6,526 | — | 6,526 | — |
| Mortgage/Agency-backed bonds | 5,509 | — | 5,509 | — |
| U.S. government bonds | 14,303 | 14,303 | — | — |
| Foreign government bonds | 730 | — | 730 | — |
| Marketable equity securities | | | | |
| Marketable equity securities – various industries | 35,662 | 35,662 | — | — |
| Deferred compensation plan assets | 19,883 | 19,883 | — | — |
| Available-for-sale securities | 118,038 | 69,848 | 48,190 | — |
| Total | \$127,888 | \$75,699 | \$52,189 | \$ — |

The fair value of our Level 2 securities is calculated using a weighted average market price for each security. Market prices are obtained from a variety of industry standard data providers, security master files from large financial institutions, and other third-party sources. These multiple market prices are used as inputs into a distribution-curve-based algorithm to determine the daily market value of each security.

8. DERIVATIVE INSTRUMENTS AND HEDGING ACTIVITIES

We participate in foreign exchange forward contracts in connection with the management of exposure to fluctuations in foreign exchange rates.

Cash Flow Hedges

Our cash flow hedging activities utilize foreign exchange forward contracts to reduce the risk that movements in exchange rates will adversely affect the net cash flows resulting from the planned purchase of products from foreign

suppliers. Purchases of U.S. denominated inventory by our European subsidiary represent our primary exposure. Changes in the fair value of derivatives designated as cash flow hedges are not recognized in current operating results, but are recorded in accumulated other comprehensive income. Amounts related to cash flow hedges are reclassified from accumulated other comprehensive income when the underlying hedged item impacts earnings. This reclassification is recorded in cost of sales, the same line item of the Consolidated Statements of Income at which the effects of the hedged item are recorded.

Undesignated Hedges

We have certain customers and suppliers who are invoiced or pay in a non-functional currency. Changes in the monetary exchange rates may adversely affect our results of operations and financial condition, as outstanding non-functional balances are revalued to the functional currency through profit and loss. When appropriate, we utilize foreign exchange forward contracts to help manage the volatility relating to these valuation exposures. All changes in the fair value of our derivative instruments that do not qualify for or are not designated for hedged accounting transactions are recognized as other income (expense), net in the Consolidated Statements of Income.

We do not hold or issue derivative instruments for trading or other speculative purposes. Our derivative instruments are recorded in the Consolidated Balance Sheets at their fair values. Our derivative instruments are not subject to master netting arrangements and are not offset in the Consolidated Balance Sheets.

As of September 30, 2018, we had no foreign exchange forward contracts.

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The changes in the fair values of our derivative instruments recorded in the Consolidated Statements of Income during the three and nine months ended September 30, 2018 and 2017 were as follows:

| (In thousands) | Income Statement Location | Three Months Ended September 30, 2018 | 2017 | Nine Months Ended September 30, 2018 | 2017 |
|--|-----------------------------|---------------------------------------|-----------|--------------------------------------|-----------|
| Derivatives Not Designated as Hedging Instruments: | | | | | |
| Foreign exchange contracts | Other income (expense), net | \$ — | \$ (334) | \$ 13 | \$ (819) |

The changes in our derivatives designated as hedging instruments recorded in other comprehensive income (OCI) and reclassified to income, net of tax, during the three and nine months ended September 30, 2018 and 2017, were as follows:

| (In thousands) | Amount of Gains (Losses) Recognized in OCI on Derivatives | Location of Gains | Amount of Gains (Losses) Reclassified from AOCI into Income |
|--|---|---|---|
| | Three Months Ended September 30, 2018 | | Three Months Ended September 30, 2018 |
| | 2017 | (Losses) Reclassified from AOCI into Income | 2017 |
| Derivatives Designated as Hedging Instruments: | | | |
| Foreign exchange contracts | \$ — | Cost of Sales | \$ — |
| | \$ (127) | | \$ (269) |

| (In thousands) | Amount of Gains (Losses) Recognized in OCI on Derivatives | Location of Gains | Amount of Gains (Losses) Reclassified from AOCI into Income |
|--|---|---|---|
| | Nine Months Ended September 30, 2018 | | Nine Months Ended September 30, 2018 |
| | 2017 | (Losses) Reclassified from AOCI into Income | 2017 |
| Derivatives Designated as Hedging Instruments: | | | |
| Foreign exchange contracts | \$ — | Cost of Sales | \$ — |
| | \$ (619) | | \$ (423) |

9. INVENTORY

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At September 30, 2018 and December 31, 2017, inventory consisted of the following:

| | September 30, | December 31, |
|-----------------|---------------|--------------|
| (In thousands) | 2018 | 2017 |
| Raw materials | \$ 47,664 | \$ 44,185 |
| Work in process | 1,289 | 1,939 |
| Finished goods | 57,107 | 76,418 |
| Total | \$ 106,060 | \$ 122,542 |

We establish reserves for estimated excess, obsolete, or unmarketable inventory equal to the difference between the cost of the inventory and the estimated fair value of the inventory based upon assumptions about future demand and market conditions. At September 30, 2018 and December 31, 2017, raw materials reserves totaled \$17.2 million and \$15.0 million, respectively, and finished goods inventory reserves totaled \$10.6 million and \$8.3 million, respectively.

10. GOODWILL AND INTANGIBLE ASSETS

Goodwill, all of which relates to our acquisition of Bluesocket, Inc., was \$3.5 million at September 30, 2018 and December 31, 2017, of which \$3.1 million and \$0.4 million is allocated to our Network Solutions and Services & Support reportable segments, respectively.

We evaluate the carrying value of goodwill during the fourth quarter of each year and between annual evaluations if events occur or circumstances change that would more likely than not reduce the fair value of the reporting unit below its carrying amount. We have elected to first assess the qualitative factors to determine whether it is more likely than not that the fair value of the reporting unit to which the goodwill is assigned is less than its carrying amount as a basis for determining whether it is necessary to perform the two-step impairment test. If we determine that it is more likely than not that its fair value is less than its carrying amount, then the two-step impairment test will be performed. Based on the results of our qualitative assessment in 2017, we concluded that it was not necessary to perform the two-step impairment test. There have been no impairment losses recognized since the acquisition in 2011.

Intangible assets are included in other assets in the accompanying Consolidated Balance Sheets and include intangibles acquired in conjunction with our acquisitions of Bluesocket, Inc. on August 4, 2011, the NSN BBA business on May 4, 2012, CommScope's active fiber access business on September 13, 2016 and Sumitomo Electric Lightwave Corp.'s North American EPON business and technology license and OEM supply agreement with Sumitomo Electric Industries, Ltd. on March 19, 2018.

The following table presents our intangible assets as of September 30, 2018 and December 31, 2017. Fully amortized intangible assets have been removed from prior year balances for comparability.

| (In thousands) | September 30, 2018 | | | December 31, 2017 | | |
|------------------------|--------------------|-----------------------------|-------------|-------------------|-----------------------------|------------|
| | Gross | | | Gross | | |
| | Value | Accumulated Amortization | Net Value | Value | Accumulated Amortization | Net Value |
| Customer relationships | \$20,724 | \$ (5,072) |) \$ 15,652 | \$7,474 | \$ (4,283) |) \$ 3,191 |
| Licensed technology | 5,900 | (355) |) 5,545 | — | — | — |
| Developed technology | 5,435 | (4,799) |) 636 | 5,524 | (4,663) |) 861 |
| Supplier relationship | 2,800 | (758) |) 2,042 | — | — | — |
| Intellectual property | 930 | (930) |) — | 930 | (852) |) 78 |
| Patent | 500 | (140) |) 360 | 500 | (89) |) 411 |
| Non-compete | 200 | (181) |) 19 | 200 | (115) |) 85 |
| Trade names | 100 | (100) |) — | 100 | (65) |) 35 |
| Total | \$36,589 | \$ (12,335) |) \$ 24,254 | \$ 14,728 | \$ (10,067) |) \$ 4,661 |

Amortization expense, all of which relates to business acquisitions, was \$0.9 million and \$0.5 million for the three months ended September 30, 2018 and 2017, respectively, and \$2.4 million for the nine months ended September 30, 2018 and 2017.

As of September 30, 2018, the estimated future amortization expense of our intangible assets is as follows:

| (In thousands) | Amount |
|-------------------|--------|
| Remainder of 2018 | \$859 |

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| | |
|------------|----------|
| 2019 | 3,540 |
| 2020 | 2,657 |
| 2021 | 2,364 |
| 2022 | 2,350 |
| Thereafter | 12,484 |
| Total | \$24,254 |

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11. STOCKHOLDERS' EQUITY

A summary of the changes in stockholders' equity for the nine months ended September 30, 2018 is as follows:

| (In thousands) | Stockholders' Equity |
|---|-------------------------|
| Balance, December 31, 2017 | \$ 497,911 |
| Net income (loss) | (10,895) |
| Dividend payments | (12,976) |
| Dividends accrued for unvested restricted stock units | (15) |
| Net unrealized gains (losses) on available-for-sale securities (net of tax) | (3,340) |
| Defined benefit plan adjustments (net of tax) | 104 |
| Foreign currency translation adjustment | (3,033) |
| Proceeds from stock option exercises | 1,321 |
| Purchase of treasury stock | (14,185) |
| Adoption of new accounting standards (see Note 1) | 3,499 |
| Stock-based compensation expense | 5,243 |
| RSU's and restricted stock vested | (33) |
| Balance, September 30, 2018 | \$ 463,601 |

Stock Repurchase Program

Since 1997, our Board of Directors has approved multiple share repurchase programs that have authorized open market repurchase transactions of up to 50.0 million shares of our common stock that are implemented through open market or private purchases from time to time as conditions warrant. During the nine months ended September 30, 2018, we repurchased 0.9 million shares of our common stock at an average price of \$15.75 per share. As of September 30, 2018, we have the authority to purchase an additional 2.7 million shares of our common stock under the current plans approved by the Board of Directors.

Stock Option Exercises

We issued 0.1 million shares of treasury stock during the nine months ended September 30, 2018 to accommodate employee stock option exercises. The stock options had exercise prices ranging from \$15.29 to \$18.97. We received proceeds totaling \$1.3 million from the exercise of these stock options during the nine months ended September 30, 2018.

Dividend Payments

During the nine months ended September 30, 2018, we paid cash dividends as follows (in thousands except per share amounts):

| Record Date | Payment Date | Per Share Amount | Total Dividend Paid |
|------------------|-------------------|------------------|---------------------|
| January 31, 2018 | February 14, 2018 | \$ 0.09 | \$ 4,367 |
| May 2, 2018 | May 16, 2018 | \$ 0.09 | \$ 4,312 |
| August 1, 2018 | August 15, 2018 | \$ 0.09 | \$ 4,297 |

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| | Securities | | | | |
|--|------------|-----------|-------------|-------------|-----------|
| Beginning balance | \$2,112 | \$ (338) | \$ (4,876) | \$ (3,714) | \$(6,816) |
| Other comprehensive income (loss) before | | | | | |
| reclassifications | 1,420 | (127) | — | 1,541 | 2,834 |
| Amounts reclassified from accumulated other | | | | | |
| comprehensive income (loss) | (616) | 269 | 73 | — | (274) |
| Net current period other comprehensive income (loss) | 804 | 142 | 73 | 1,541 | 2,560 |
| Ending balance | \$2,916 | \$ (196) | \$ (4,803) | \$ (2,173) | \$(4,256) |

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The following tables present the changes in accumulated other comprehensive income (loss), net of tax, by component for the nine months ended September 30, 2018 and 2017:

| | Nine Months Ended September 30, 2018 | | | |
|--|--------------------------------------|--------------|-------------|-------------|
| | Unrealized | | | |
| | Gains | | | |
| | (Losses) | | | |
| | on | | | |
| | Available-Defined | Foreign | | |
| | for-Sale | Benefit Plan | Currency | |
| (In thousands) | Securities | Adjustments | Adjustments | Total |
| Beginning balance | \$2,567 | \$ (4,286) | \$ (1,576) | \$ (3,295) |
| Other comprehensive income (loss) before | | | | |
| reclassifications | 869 | — | (3,033) | (2,164) |
| Amounts reclassified from accumulated other | | | | |
| comprehensive income (loss) | (989) | 104 | — | (885) |
| Amounts reclassified to retained earnings ⁽¹⁾ | (3,220) | — | — | (3,220) |
| Net current period other comprehensive income (loss) | (3,340) | 104 | (3,033) | (6,269) |
| Ending balance | \$(773) | \$ (4,182) | \$ (4,609) | \$(9,564) |

⁽¹⁾With the adoption of ASU 2016-01, the unrealized gains on our equity investments were reclassified to retained earnings. See Note 1 for more information.

| | Nine Months Ended September 30, 2017 | | | |
|--|--------------------------------------|--------------|-------------|-------------|
| | Unrealized | | | |
| | Gains | | | |
| | (Losses) | | | |
| | on | | | |
| | Available-Defined | Foreign | | |
| | for-Sale | Benefit Plan | Currency | |
| | Unrealized | | | |
| | Gains | | | |
| | (Losses) | | | |
| | on Cash | | | |
| | Flow | | | |
| (In thousands) | Securities | Hedges | Adjustments | Adjustments |
| | | | | Total |
| Beginning balance | \$404 | \$ — | \$ (5,017) | \$ (7,575) |
| Other comprehensive income (loss) before | 4,262 | (619) | — | 5,402 |
| | | | | 9,045 |

| | | | | | |
|--|---------|-----------|-------------|-------------|-------------|
| reclassifications | | | | | |
| Amounts reclassified from accumulated other | | | | | |
| comprehensive income (loss) | (1,750) | 423 | 214 | — | (1,113) |
| Net current period other comprehensive income (loss) | 2,512 | (196) | 214 | 5,402 | 7,932 |
| Ending balance | \$2,916 | \$ (196) | \$ (4,803) | \$ (2,173) | \$ (4,256) |

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The following tables present the details of reclassifications out of accumulated other comprehensive income (loss) for the three months ended September 30, 2018 and 2017:

| (In thousands) | Three Months Ended September 30, 2018 Amount | |
|--|--|------------------------------|
| | Reclassified | |
| | from | |
| | Accumulated | Affected Line Item in the |
| | Other | Statement |
| | Comprehensive | Where Net |
| | Income | Income Is |
| | (Loss) | Presented |
| Details about Accumulated Other Comprehensive Income (Loss) Components | | |
| Unrealized gains (losses) on available-for-sale securities: | | |
| Net realized gain (loss) on sales of securities | \$ 1,676 | Net investment gain |
| Defined benefit plan adjustments – actuarial losses | (54) | (1) |
| Total reclassifications for the period, before tax | 1,622 | |
| Tax (expense) benefit | (419) | |
| Total reclassifications for the period, net of tax | \$ 1,203 | |

⁽¹⁾Included in the computation of net periodic pension cost. See Note 5 of Notes to Consolidated Financial Statements.

| (In thousands) | Three Months Ended September 30, 2017 Amount | |
|--|--|------------------------------|
| | Reclassified | |
| | from | |
| | Accumulated | Affected Line Item in the |
| | Other | Statement |
| | Comprehensive | Where Net |
| | Income | Income Is |
| | (Loss) | Presented |
| Details about Accumulated Other Comprehensive Income (Loss) Components | | |
| Unrealized gains (losses) on available-for-sale securities: | | |

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| | | |
|---|----------|---------------------|
| Net realized gain (loss) on sales of securities | \$ 1,066 | Net investment gain |
| Impairment expense | (57) | Net investment gain |
| Net losses on derivatives designated as hedging instruments | (385) | Cost of sales |
| Defined benefit plan adjustments – actuarial losses | (106) | (1) |
| Total reclassifications for the period, before tax | 518 | |
| Tax (expense) benefit | (244) | |
| Total reclassifications for the period, net of tax | \$ 274 | |

⁽¹⁾Included in the computation of net periodic pension cost. See Note 5 of Notes to Consolidated Financial Statements.

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The following tables present the details of reclassifications out of accumulated other comprehensive income (loss) for the nine months ended September 30, 2018 and 2017:

| (In thousands) | Nine Months Ended September 30, 2018 Amount | |
|--|---|------------------------------|
| | Reclassified | |
| | from | |
| | Accumulated | Affected Line Item in the |
| | Other | Statement |
| | Comprehensive | Where Net |
| | Income | Income Is |
| | (Loss) | Presented |
| Details about Accumulated Other Comprehensive Income (Loss) Components | | |
| Unrealized gains (losses) on available-for-sale securities: | | |
| Net realized gain (loss) on sales of securities | \$ 1,352 | Net investment gain |
| Defined benefit plan adjustments – actuarial losses | (151) | (1) |
| Total reclassifications for the period, before tax | 1,201 | |
| Tax (expense) benefit | (316) | |
| Total reclassifications for the period, net of tax | \$ 885 | |

⁽¹⁾Included in the computation of net periodic pension cost. See Note 5 of Notes to Consolidated Financial Statements.

| (In thousands) | Nine Months Ended September 30, 2017 Amount | |
|--|---|---------------------------|
| | Reclassified | |
| | from | |
| | Accumulated | |
| | Other | Affected Line Item in the |
| | Comprehensive | Statement Where Net |
| | Income | |
| | (Loss) | Income Is Presented |
| Details about Accumulated Other Comprehensive Income (Loss) Components | | |
| Unrealized gains (losses) on available-for- | | |

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| | | |
|---|---------|---------------------|
| sale securities: | | |
| Net realized gain (loss) on sales of securities | \$3,031 | Net investment gain |
| Impairment expense | (162) | Net investment gain |
| Net losses on derivatives designated as hedging instruments | (539) | Cost of sales |
| Defined benefit plan adjustments – actuarial losses | (310) | (1) |
| Total reclassifications for the period, before tax | 2,020 | |
| Tax (expense) benefit | (907) | |
| Total reclassifications for the period, net | | |
| of tax | \$1,113 | |

(1) Included in the computation of net periodic pension cost. See Note 5 of Notes to Consolidated Financial Statements.

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The following table presents the tax effects related to the change in each component of other comprehensive income (loss) for the three months ended September 30, 2018 and 2017:

| (In thousands) | Three Months Ended September 30, 2018 | | | Three Months Ended September 30, 2017 | | |
|--|--|----------------------|----------------------|--|----------------------|----------------------|
| | Tax | | | Tax | | |
| | Before-Tax Amount | (Expense) Benefit | Net-of-Tax Amount | Before-Tax Amount | (Expense) Benefit | Net-of-Tax Amount |
| Unrealized gains (losses) on available-for-sale securities | \$1,632 | \$ (424) | \$ 1,208 | \$2,328 | \$ (908) | \$ 1,420 |
| Unrealized gains (losses) on cash flow hedges | — | — | — | (184) | 57 | (127) |
| Reclassification adjustment for amounts related to available-for-sale investments included in net income | (1,676) | 436 | (1,240) | (1,009) | 393 | (616) |
| Reclassification adjustment for amounts related to cash flow hedges included in net income | — | — | — | 385 | (116) | 269 |
| Reclassification adjustment for amounts related to defined benefit plan adjustments included in net income | 54 | (17) | 37 | 106 | (33) | 73 |
| Foreign currency translation adjustment | (451) | — | (451) | 1,541 | — | 1,541 |
| Total Other Comprehensive Income (Loss) | \$ (441) | \$ (5) | \$ (446) | \$3,167 | \$ (607) | \$ 2,560 |

The following table presents the tax effects related to the change in each component of other comprehensive income for the nine months ended September 30, 2018 and 2017:

| (In thousands) | Nine Months Ended September 30, 2018 | | | Nine Months Ended September 30, 2017 | | |
|--|---|----------------------|----------------------|---|----------------------|----------------------|
| | Tax | | | Tax | | |
| | Before-Tax Amount | (Expense) Benefit | Net-of-Tax Amount | Before-Tax Amount | (Expense) Benefit | Net-of-Tax Amount |
| Unrealized gains (losses) on available-for-sale securities | \$1,174 | \$ (305) | \$ 869 | \$6,987 | \$ (2,725) | \$ 4,262 |

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| | | | | | | | |
|--|------------|-------|-------------|----------|-------------|----------|--|
| securities | | | | | | | |
| Unrealized gains (losses) on cash flow hedges | — | — | — | (897) | 278 | (619) | |
| Reclassification adjustment for amounts related to | | | | | | | |
| available-for-sale investments included in net | | | | | | | |
| income | (1,352) | 363 | (989) | (2,869) | 1,119 | (1,750) | |
| Reclassification adjustment for amounts reclassified | | | | | | | |
| to retained earnings related to the adoption of | | | | | | | |
| ASU 2016-01 | (3,220) | — | (3,220) | — | — | — | |
| Reclassification adjustment for amounts related to | | | | | | | |
| cash flow hedges included in net income | — | — | — | 539 | (116) | 423 | |
| Reclassification adjustment for amounts related to | | | | | | | |
| defined benefit plan adjustments included in net | | | | | | | |
| income | 151 | (47) | 104 | 310 | (96) | 214 | |
| Foreign currency translation adjustment | (3,033) | — | (3,033) | 5,402 | — | 5,402 | |
| Total Other Comprehensive Income (Loss) | \$ (6,280) | \$ 11 | \$ (6,269) | \$ 9,472 | \$ (1,540) | \$ 7,932 | |

12. EARNINGS PER SHARE

A summary of the calculation of basic and diluted earnings per share for the three and nine months ended September 30, 2018 and 2017 is as follows:

| (In thousands, except per share amounts) | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|---|--|----------|---------------------------------------|----------|
| | 2018 | 2017 | 2018 | 2017 |
| Numerator | | | | |
| Net income (loss) | \$7,589 | \$15,898 | \$(10,895) | \$34,950 |
| Denominator | | | | |
| Weighted average number of shares – basic | 47,710 | 47,870 | 47,927 | 48,110 |
| Effect of dilutive securities | | | | |
| Stock options | 27 | 487 | — | 385 |
| PSUs, RSUs and restricted stock | 97 | 174 | — | 123 |
| Weighted average number of shares – diluted | 47,834 | 48,531 | 47,927 | 48,618 |
| Net income (loss) per share – basic | \$0.16 | \$0.33 | \$(0.23) | \$0.73 |
| Net income (loss) per share – diluted | \$0.16 | \$0.33 | \$(0.23) | \$0.72 |

Anti-dilutive options to purchase common stock outstanding were excluded from the above calculations. Anti-dilutive options totaled 3.9 million and 3.2 million for the three months ended September 30, 2018 and 2017, respectively, and 4.8 million and 3.9 million for the nine months ended September 30, 2018 and 2017. As a result of the net loss for the nine months ended September 30, 2018, we excluded 0.1 million of unvested stock options, PSUs, RSUs and restricted stock from the calculation of diluted EPS due to their anti-dilutive effect.

13. SEGMENT INFORMATION

We operate in two reportable segments: (1) Network Solutions and (2) Services & Support. Network Solutions includes hardware products and next-generation virtualized solutions used in service provider or business networks, as well as prior-generation products. Services & Support includes our suite of ProCloud® managed services, network installation, engineering and maintenance services, and fee-based technical support and equipment repair/replacement plans.

We evaluate the performance of our segments based on gross profit; therefore, selling, general and administrative expenses, research and development expenses, interest and dividend income, interest expense, net investment gain, other income (expense) and provision for taxes are reported on a company-wide, functional basis only. There are no inter-segment revenues.

The following table presents information about the reported sales and gross profit of our reportable segments for the three and nine months ended September 30, 2018 and 2017. We do not produce asset information by reportable segment; therefore, it is not reported.

Three Months Ended

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| (In thousands) | September 30, 2018 | | September 30, 2017 | |
|--------------------|--------------------|----------|--------------------|----------|
| | Sales | Gross | Sales | Gross |
| | | Profit | | Profit |
| Network Solutions | \$121,043 | \$51,100 | \$145,467 | \$71,933 |
| Services & Support | 19,292 | 7,348 | 39,645 | 14,558 |
| Total | \$140,335 | \$58,448 | \$185,112 | \$86,491 |

| (In thousands) | Nine Months Ended | | | |
|--------------------|--------------------|-----------|--------------------|-----------|
| | September 30, 2018 | | September 30, 2017 | |
| | Sales | Gross | Sales | Gross |
| Profit | | Profit | | |
| Network Solutions | \$341,359 | \$133,175 | \$444,607 | \$214,746 |
| Services & Support | 47,830 | 15,002 | 95,457 | 30,080 |
| Total | \$389,189 | \$148,177 | \$540,064 | \$244,826 |

Sales by Category

In addition to our reporting segments, we also report revenue for the following three categories – **Access & Aggregation**, **Customer Devices**, and **Traditional & Other Products**.

The table below presents sales information by category for the three and nine months ended September 30, 2018 and 2017:

| (In thousands) | Three Months Ended | | Nine Months Ended | |
|------------------------------|--------------------|--------------------|--------------------|--------------------|
| | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |
| Access & Aggregation | \$91,901 | \$135,959 | \$258,323 | \$394,741 |
| Customer Devices | 38,552 | 35,582 | 103,213 | 105,683 |
| Traditional & Other Products | 9,882 | 13,571 | 27,653 | 39,640 |
| Total | \$140,335 | \$185,112 | \$389,189 | \$540,064 |

14. LIABILITY FOR WARRANTY RETURNS

Our products generally include warranties of 90 days to five years for product defects. We accrue for warranty returns at the time revenue is recognized based on our estimate of the cost to repair or replace the defective products. We engage in extensive product quality programs and processes, including actively monitoring and evaluating the quality of our component suppliers. Our products continue to become more complex in both size and functionality as many of our product offerings migrate from line card applications to total systems. The increasing complexity of our products will cause warranty incidences, when they arise, to be more costly. Our estimates regarding future warranty obligations may change due to product failure rates, material usage, and other rework costs incurred in correcting a product failure. In addition, from time to time, specific warranty accruals may be recorded if unforeseen problems arise. Should our actual experience relative to these factors be worse than our estimates, we will be required to record additional warranty expense. Alternatively, if we provide for more reserves than we require, we will reverse a portion of such provisions in future periods. The liability for warranty obligations totaled \$9.0 million and \$9.7 million at September 30, 2018 and December 31, 2017. During the three months ended March 31, 2017, we recorded a receivable and a reduction in warranty expense related to a settlement with a third party supplier for a defective component, the impact of which is reflected in the table below. During the three months ended September 30, 2018, we had a reversal of prior provisions, the impact of which is reflected in the table below. These liabilities are included in accrued expenses in the accompanying Consolidated Balance Sheets.

A summary of warranty expense and write-off activity for the three and nine months ended September 30, 2018 and 2017 is as follows:

| (In thousands) | Three Months Ended | | Nine Months Ended | |
|----------------|--------------------|--------------------|--------------------|--------------------|
| | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |

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| | | | | |
|--|----------|----------|----------|----------|
| Balance at beginning of period | \$10,111 | \$9,180 | \$9,724 | \$8,548 |
| Plus: Amounts charged to cost and expenses | (34) | 4,087 | 6,649 | 6,401 |
| Less: Deductions | (1,053) | (2,328) | (7,349) | (4,010) |
| Balance at end of period | \$9,024 | \$10,939 | \$9,024 | \$10,939 |

15. COMMITMENTS AND CONTINGENCIES

In the ordinary course of business, we may be subject to various legal proceedings and claims, including employment disputes, patent claims, disputes over contract agreements and other commercial disputes. In some cases, claimants seek damages or other relief, such as royalty payments related to patents, which, if granted, could require significant expenditures. Although the outcome of any claim or litigation can never be certain, it is our opinion that the outcome of all contingencies of which we are currently aware will not materially affect our business, operations, financial condition or cash flows.

We have committed to invest up to an aggregate of \$7.9 million in two private equity funds, and we have contributed \$8.4 million as of September 30, 2018, of which \$7.7 million has been applied to these commitments.

16. SUBSEQUENT EVENTS

On October 16, 2018, we announced that our Board of Directors declared a quarterly cash dividend of \$0.09 per common share to be paid to stockholders of record at the close of business on October 31, 2018. The payment date will be November 14, 2018. The quarterly dividend payment will be approximately \$4.3 million. In July 2003, our Board of Directors elected to begin declaring quarterly dividends on our common stock considering the tax treatment of dividends and adequate levels of Company liquidity.

During the 4th quarter and as of November 6, 2018, we have repurchased 0.1 million shares of our common stock through open market purchases at an average cost of \$13.60 per share. We currently have the authority to purchase an additional 2.6 million shares of our common stock under the current plan approved by the Board of Directors.

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

The following discussion should be read in conjunction with the Consolidated Financial Statements and the related notes that appear elsewhere in this document.

OVERVIEW

ADTRAN, Inc. is a leading global provider of networking and communications equipment. Our solutions enable voice, data, video and Internet communications across a variety of network infrastructures. These solutions are deployed by many of the United States' and the world's largest communications service providers (CSPs), distributed enterprises and small and medium-sized businesses, public and private enterprises, and millions of individual users worldwide.

Our success depends upon our ability to increase unit volume and market share through the introduction of new products and succeeding generations of products having lower selling prices and increased functionality as compared to both the prior generation of a product and to the products of competitors. An important part of our strategy is to reduce the cost of each succeeding product generation and then lower the product's selling price based on the cost savings achieved in order to gain market share and/or improve gross margins. As a part of this strategy, we seek in most instances to be a high-quality, low-cost provider of products in our markets. Our success to date is attributable in large measure to our ability to design our products initially with a view to their subsequent redesign, allowing both increased functionality and reduced manufacturing costs in each succeeding product generation. This strategy enables us to sell succeeding generations of products to existing customers, while increasing our market share by selling these enhanced products to new customers.

Our business is global. We supply different sets of products to different customers in different regions around the world. Our financial results in any period reflect the activities of our various customers in their respective regions at any given time. In order to service our customers and build revenue, we are constantly conducting research and development of new products addressing customer needs and testing those products for the particular specifications of the particular customers. The lead times to revenues for these products vary.

As previously reported, we experienced a significant negative impact on our North American revenue as a result of a decision in mid-fourth quarter 2017 by a major customer to suspend a product rollout following a merger. While we continue to sell to that customer, the project in question has not yet resumed and we are unsure when, if ever, it will. During the periods covered in this report, our North American revenue was also impacted by slower-than-expected orders of an ultra-broadband product by a large domestic customer.

During the same period, however, we have seen a modest expansion of our revenues from much of the customer base and have brought to fruition our participation in a number of large customer projects which in some cases have begun to produce some revenue and in all cases we anticipate represent significant revenue opportunities in the future. These include next generation PON projects with large carriers, both domestically and internationally, the beginnings of deployment for a large project in the APAC region, a significant network upgrade by a Tier 1 European customer, as well as continued expansion and opportunities for our EPON products to two of the top North American cable MSO operators.

While our Services business did not increase at the rate that it did in 2016 and 2017, and has decreased from the record levels we achieved in 2017 due to the above-mentioned merger-related disruption, we continue to develop our Services business around the world, and we anticipate that it will continue to expand and remain an increasingly important part of our revenue streams across the world. Margins on services revenue vary depending upon the types of services performed.

We report revenue for the following three categories – **Access & Aggregation, Customer Devices, and Traditional & Other Products.**

Access & Aggregation solutions are used by CSPs to connect their network infrastructure to their subscribers. This category includes software and hardware-based products and services that aggregate and/or originate access technologies. The portfolio of ADTRAN solutions within this category includes a wide array of modular or fixed physical form factors designed to deliver the best technology and economic fit based on the target subscriber density and environmental conditions.

Customer Devices includes our products and services that provide end users access to CSP networks. Our Customer Devices portfolio includes a comprehensive array of service provider and enterprise hardware and software products and services.

Traditional & Other Products generally includes a mix of prior generation technologies' products and services, as well as other products and services that do not fit within the Access & Aggregation or Customer Devices categories.

See Note 13 of Notes to Consolidated Financial Statements in this report for further information regarding these product categories.

Sales were \$140.3 million and \$389.2 million for the three and nine months ended September 30, 2018, compared to \$185.1 million and \$540.1 million for the three and nine months ended September 30, 2017. Our gross margin decreased to 41.6% and 38.1% in the three and nine months ended September 30, 2018, from 46.7% and 45.3% in the three and nine months ended September 30, 2017. Our operating income margin decreased to (1.6)% and (10.7)% for the three and nine months ended September 30, 2018, from 9.8% and 7.7% for the three and nine months ended September 30, 2017. Net income (loss) was \$7.6 million and \$(10.9) million for the three and nine months ended September 30, 2018, compared to \$15.9 million and \$35.0 million for the three and nine months ended September 30, 2017. Our effective tax rate, excluding the effect of the bargain purchase gain in 2018, was a benefit of 135.7% and 52.2% for the three and nine months ended September 30, 2018, compared to a provision of 17.2% and 23.1% for the three and nine months ended September 30, 2017. Earnings (loss) per share, assuming dilution, was \$0.16 and \$(0.23) for the three and nine months ended September 30, 2018, compared to \$0.33 and \$0.72 for the three and nine months ended September 30, 2017.

Our operating results have fluctuated on a quarterly basis in the past, and may vary significantly in future periods due to a number of factors, including customer order activity and backlog. Backlog levels vary because of seasonal trends, the timing of customer projects and other factors that affect customer order lead times. Many of our customers require prompt delivery of products. This requires us to maintain sufficient inventory levels to satisfy anticipated customer demand. If near-term demand for our products declines, or if potential sales in any quarter do not occur as anticipated, our financial results could be adversely affected. Operating expenses are relatively fixed in the short term; therefore, a shortfall in quarterly revenues could significantly impact our financial results in a given quarter.

Our operating results may also fluctuate as a result of a number of other factors, including a decline in general economic and market conditions, foreign currency exchange rate movements, increased competition, customer order patterns, changes in product and services mix, timing differences between price decreases and product cost reductions, product warranty returns, expediting costs and announcements of new products by us or our competitors. Additionally, maintaining sufficient inventory levels to assure prompt delivery of our products increases the amount of inventory that may become obsolete and increases the risk that the obsolescence of this inventory may have an adverse effect on our business and operating results. Also, not maintaining sufficient inventory levels to assure prompt delivery of our products may cause us to incur expediting costs to meet customer delivery requirements, which may negatively impact our operating results in a given quarter.

Accordingly, our historical financial performance is not necessarily a meaningful indicator of future results, and in general, management expects that our financial results may vary from period to period. Factors that could materially affect our business, financial condition or operating results are included in Item 1A of Part I in our most recent Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 23, 2018 with the SEC and in Part II Item 1A herein.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Our critical accounting policies and estimates have not changed significantly from those detailed in our most recent Annual Report on Form 10-K for the year ended December 31, 2017, filed on February 23, 2018 with the SEC.

EFFECT OF RECENT ACCOUNTING PRONOUNCEMENTS

See Note 1 of Notes to Consolidated Financial Statements in Item 1 of this Form 10-Q for a full description of recent accounting pronouncements, including the expected dates of adoption and estimated effects on results of operations and financial condition, which is incorporated herein by reference.

RESULTS OF OPERATIONS – THREE AND NINE MONTHS ENDED SEPTEMBER 30, 2018 COMPARED TO THREE AND NINE MONTHS ENDED SEPTEMBER 30, 2017

SALES

Our sales decreased 24.2% from \$185.1 million in the three months ended September 30, 2017 to \$140.3 million in the three months ended September 30, 2018, and decreased 27.9% from \$540.1 million in the nine months ended September 30, 2017 to \$389.2 million in the nine months ended September 30, 2018. The decrease in sales for the three and nine months ended September 30, 2018 is primarily attributable to a merger-related review and slowdown in spending at a domestic Tier 1 customer that particularly affected our Access & Aggregation products and services, which decreased \$44.1 million and \$136.4 million over the same three and nine month periods last year. The decline in sales to the previously mentioned domestic Tier 1 customer was partially offset by an increase in sales to international customers. Compared to the same three and nine month periods last year, our Customer Devices products increased \$3.0 million and decreased \$2.5 million, respectively, and our Traditional & Other Products decreased \$3.7 million and \$12.0 million, respectively.

Network Solutions sales decreased 16.8% from \$145.5 million in the three months ended September 30, 2017 to \$121.0 million in the three months ended September 30, 2018, and decreased 23.2% from \$444.6 million in the nine months ended September 30, 2017 to \$341.4 million in the nine months ended September 30, 2018. The decrease in sales of our Access & Aggregation products for the three and nine months ended September 30, 2018 is primarily attributable to a merger-related review and slowdown in spending at a domestic Tier 1 customer, partially offset by an increase in sales to an international Tier 1 customer as discussed further below. The changes for the three and nine months ended September 30, 2018 in sales of our Customer Devices products are primarily attributable to the changes in sales of fiber CPE products. While we expect that revenues from Traditional & Other Products will continue to decline over time, these revenues may fluctuate and continue for years because of the time required for our customers to transition to newer technologies.

Services & Support sales decreased 51.3% from \$39.6 million in the three months ended September 30, 2017 to \$19.3 million in the three months ended September 30, 2018, and decreased 49.9% from \$95.5 million in the nine months ended September 30, 2017 to \$47.8 million in the nine months ended September 30, 2018. The decrease in sales for the three and nine months ended September 30, 2018 is primarily attributable to a decrease in network installation services for Access & Aggregation products related to the above mentioned merger-related review and slowdown in spending at a domestic Tier 1 customer.

International sales, which are included in the Network Solutions and Services & Support amounts discussed above, increased 52.0% from \$37.2 million in the three months ended September 30, 2017 to \$56.6 million in the three months ended September 30, 2018, and increased 38.8% from \$126.2 million in the nine months ended September 30, 2017 to \$175.2 million in the nine months ended September 30, 2018. International sales, as a percentage of total sales, increased from 20.1% for the three months ended September 30, 2017 to 40.3% for the three months ended September 30, 2018, and increased from 23.4% for the nine months ended September 30, 2017 to 45.0% in the nine months ended September 30, 2018. The increase in sales for the three and nine months ended September 30, 2018 is primarily attributable to an increase in sales in EMEA and APAC. The increase in sales in EMEA for the three and nine months ended September 30, 2018 is primarily attributable to a network expansion program and a Services award by a large European Tier-1 customer. The increase in sales in APAC for the three and nine months ended September 30, 2018 is primarily attributable to a network expansion program in Australia.

Our international revenues are largely focused on broadband infrastructure and are impacted by the decisions of our customers as to timing for installation of new technologies, expansion of their networks and/or network upgrades. Our international customers must make these decisions in the regulatory and political environment in which they operate – both nationally and in some instances, regionally – whether of a multi-country region or a more local region within a country. For example, the European Commission launched a Gigabit Society initiative, and before that, the Digital

Agenda, which has provided a favorable market environment for the deployment of ultra-broadband and Gigabit network solutions. Although the overall environment and market demand for broadband service deployment in the European Union have improved, some new broadband technologies are still being reviewed for regulatory and standards compliance, which may affect the timing of those technologies. In Mexico, regulatory changes have created uncertainty for customers resulting in slowdowns in their network buying patterns. The competitive landscape in certain international markets is also impacted by the increased presence of Asian manufacturers that seek to compete aggressively on price. A strengthening U.S. dollar can also negatively impact our revenues in regions such as Latin America, where our products are traditionally priced in U.S. dollars, while in regions where our products are sold in local currency, such as Europe, a stronger U.S. dollar can negatively impact operating income. Consequently, while we expect the global trend towards deployment of more robust broadband speeds and access to continue creating additional market opportunities for us, the factors described above may result in pressure on revenues and operating income. However, we do not presently foresee a significant negative impact to our financial condition based on our strong liquidity and the generally positive environment described above.

We recognized a positive revenue impact in the first half of 2017 due to our being awarded a network expansion program by a large European Tier-1 customer. During 2018, this European Tier 1 customer undertook an additional network expansion project. We anticipate that as our Latin American customers resume their network upgrade projects, we may experience further enhancement to our revenues. As announced, we received of a new nationwide award in the APAC region, as well as additional awards based on new ADTRAN technologies in the EMEA region that have, and we believe will continue to have, a positive impact to our revenues. However, a resolution of the regulatory changes affecting a major customer in Mexico has been slower than anticipated, and business with one of our customers in that region has not yet returned to normal levels. We are continuing to pursue opportunities with new customers in this region.

COST OF SALES

As a percentage of sales, cost of sales increased from 53.3% in the three months ended September 30, 2017 to 58.4% in the three months ended September 30, 2018, and increased from 54.7% in the nine months ended September 30, 2017 to 61.9% in the nine months ended September 30, 2018. The increase in cost of sales as a percentage of sales for the three months ended September 30, 2018 is primarily attributable to a regional revenue shift, customer and product mix, and services and support mix. The increase in cost of sales as a percentage of sales for the nine months ended September 30, 2018 is primarily attributable to a regional revenue shift, customer and product mix, and services and support mix, restructuring expenses and an increase in warranty replacements.

Network Solutions cost of sales, as a percent of that segment's sales, increased from 50.6% in the three months ended September 30, 2017 to 57.8% in the three months ended September 30, 2018, and increased from 51.7% in the nine months ended September 30, 2017 to 61.0% in the nine months ended September 30, 2018. The increase in cost of sales as a percentage of sales for the three months ended September 30, 2018 is primarily attributable to a regional revenue shift and customer and product mix. The increase in cost of sales as a percentage of sales for the nine months ended September 30, 2018 is primarily attributable to a regional revenue shift, customer and product mix, an increase in warranty expense due to a settlement in first quarter of 2017 with a third party supplier for a defective component and purchase discounts received from a contract manufacturer in the first quarter of 2017 and restructuring expenses.

An important part of our strategy is to reduce the product cost of each succeeding product generation and then to lower the product's price based on the cost savings achieved. This may cause variations in our gross profit percentage due to timing differences between the recognition of cost reductions and the lowering of product selling prices.

Services & Support cost of sales, as a percent of that segment's sales, decreased from 63.3% in the three months ended September 30, 2017 to 61.9% in the three months ended September 30, 2018, and increased from 68.5% in the nine months ended September 30, 2017 to 68.6% in the nine months ended September 30, 2018. The decrease in cost of sales as a percentage of sales for the three months ended September 30, 2018 is primarily attributable to customer mix, services and support mix and cost reductions. The increase in cost of sales as a percentage of sales for the nine months ended September 30, 2018 is primarily attributable to services and support mix and an increase in labor expense due to a restructuring program.

Our Services business has experienced significant growth since 2015 as competitive pressures to expand broadband access and speeds have strained carriers' ability to respond to customer demand. Our Services & Support revenues are comprised of network planning and implementation, maintenance, support and cloud-based management services, with network planning and implementation being the largest and fastest growing component. Compared to our other services, such as maintenance, support and cloud-based management services, our network planning and implementation services typically utilize a higher percentage of internal and subcontracted engineers, professionals and contractors to perform the work for customers. The additional costs incurred to perform these infrastructure and labor-intensive services inherently result in lower average gross margins as compared to maintenance and support services.

As our network planning and implementation revenues grew and are now the largest component of our Services & Support business, our Services & Support segment gross margins decreased versus those reported when maintenance and support comprised the majority of the business. Further, because the growth in our network planning and implementation services has resulted in our Services & Support revenues comprising a larger percentage of our overall revenues, and because our Services & Support gross margins are below those of the Network Solutions segment, our overall corporate gross margins have declined as that business has continued to grow. Within the Services & Support segment, we do expect variability in gross margins from quarter-to-quarter based on the mix of the services recognized.

SELLING, GENERAL AND ADMINISTRATIVE EXPENSES

Selling, general and administrative expenses decreased 11.3% from \$34.7 million in the three months ended September 30, 2017 to \$30.8 million in the three months ended September 30, 2018, and decreased 7.5% from \$104.2 million in the nine months ended September 30, 2017 to \$96.4 million in the nine months ended September 30, 2018. The decrease in selling, general and administrative expenses for the three months ended September 30, 2018 is primarily attributable to decreases in compensation and labor expense, travel expense and independent contractor expense, partially offset by an increase in restructuring expense. The decrease in selling, general and administrative expenses for the nine months ended September 30, 2018 is primarily attributable to a decrease in compensation and labor expense, independent contractor expense, and travel expense, partially offset by an increase in restructuring expense.

As a percentage of sales, selling, general and administrative expenses increased from 18.7% in the three months ended September 30, 2017 to 21.9% in the three months ended September 30, 2018, and increased from 19.3% in the nine months ended September 30, 2017 to 24.8% in the nine months ended September 30, 2018. Selling, general and administrative expenses as a percentage of sales may fluctuate whenever there is a significant fluctuation in revenues for the periods being compared.

RESEARCH AND DEVELOPMENT EXPENSES

Research and development expenses decreased 11.0% from \$33.6 million in the three months ended September 30, 2017 to \$29.9 million in the three months ended September 30, 2018, and decreased 5.7% from \$99.1 million in the nine months ended September 30, 2017 to \$93.5 million in the nine months ended September 30, 2018. The decrease in research and development expenses for the three months ended September 30, 2018 is primarily attributable to decreases in labor, engineering materials and independent contractor expense. The decrease in research and development expenses for the nine months ended September 30, 2018 is primarily attributable to decreases in engineering materials and independent contractor expense and amortization of intangibles acquired in the third quarter of 2016 that were fully amortized in 2017, partially offset by an increase in restructuring expense.

As a percentage of sales, research and development expenses increased from 18.1% in the three months ended September 30, 2017 to 21.3% in the three months ended September 30, 2018, and increased from 18.4% in the nine months ended September 30, 2017 to 24.0% in the nine months ended September 30, 2018. Research and development expenses as a percentage of sales will fluctuate whenever there are incremental product development activities or significant fluctuations in revenues for the periods being compared.

We expect to continue to incur research and development expenses in connection with our new and existing products and our expansion into international markets. We continually evaluate new product opportunities and engage in intensive research and product development efforts, which provides for new product development, enhancement of existing products and product cost reductions. We may incur significant research and development expenses prior to the receipt of revenues from a major new product group.

INTEREST AND DIVIDEND INCOME

Interest and dividend income decreased 13.3% from \$1.0 million in the three months ended September 30, 2017 to \$0.8 million in the three months ended September 30, 2018, and decreased 8.9% from \$2.9 million in the nine months ended September 30, 2017 to \$2.6 million in the nine months ended September 30, 2018. The decrease in interest and dividend income for the three and nine months ended September 30, 2018 is primarily attributable to fluctuations in investment balances and a decrease in the rate of return on those investments due to interest rate movements.

INTEREST EXPENSE

Interest expense, which is primarily related to our taxable revenue bond, remained constant at \$0.1 million in the three months ended September 30, 2017 and 2018, and \$0.4 million in the nine months ended September 30, 2017 and 2018, as we had no substantial change in our fixed-rate borrowing. See “Liquidity and Capital Resources” below for additional information on our revenue bond.

NET INVESTMENT GAIN

Net investment gains increased 346.7% from \$1.0 million in the three months ended September 30, 2017 to \$4.5 million in the three months ended September 30, 2018, and increased 88.2% from \$2.9 million in the nine months ended September 30, 2017 to \$5.4 million in the nine months ended September 30, 2018. The increase in net investment gains for the three and nine months ended September 30, 2018 is primarily attributable to changes in fair value on equity securities recognized during the period under ASC 2016-01. Prior to January 1, 2018, changes in fair value were recognized in accumulated other comprehensive income, net of deferred taxes, on the balance sheet. See Note 1, Note 7 and “Investing Activities” in “Liquidity and Capital Resources” for additional information.

OTHER INCOME (EXPENSE), NET

Other income (expense), net, comprised primarily of miscellaneous income, gains and losses on foreign currency transactions, gains and losses on foreign exchange forward contracts, investment account management fees, and scrap raw material sales. Other income, net increased 123.9% from \$0.8 million of expense in the three months ended September 30, 2017 to \$0.2 million of income in the three months ended September 30, 2018. Other income (expense), net decreased 94.9% from \$1.4 million of expense in the nine months ended September 30, 2017 to \$0.1 million of expense in the nine months ended September 30, 2018. The change in other income (expense), net for the three and nine months ended September 30, 2018 is primarily attributable to higher losses on foreign exchange contracts and transactions in 2017.

GAIN ON BARGAIN PURCHASE OF A BUSINESS

Gain on bargain purchase of a business is related to our acquisition of

. See Note 2 of Notes to Consolidated Financial Statements for additional information.

INCOME TAXES

Our effective tax rate decreased from an expense of 23.1% in the nine months ended September 30, 2017 to a benefit of 34.9%, excluding the tax effect of the bargain purchase gain, in the nine months ended September 30, 2018. The decrease in the effective tax rate between the two periods is primarily driven by the completion of other tax projects, current year net losses in our domestic business and the effect of the U.S. Tax Cuts and Jobs Act, which was signed into law on December 22, 2017.

NET INCOME (LOSS)

As a result of the above factors, net income (loss) decreased \$8.3 million from \$15.9 million in the three months ended September 30, 2017 to \$7.6 million in the three months ended September 30, 2018, and decreased \$45.8 million from \$35.0 million in the nine months ended September 30, 2017 to \$(10.9) million in the nine months ended September 30, 2018.

LIQUIDITY AND CAPITAL RESOURCES

Liquidity

We intend to finance our operations with cash flow from operations. We have used, and expect to continue to use, the cash generated from operations for working capital, purchases of treasury stock, shareholder dividends, and other general corporate purposes, including (i) product development activities to enhance our existing products and develop new products and (ii) expansion of sales and marketing activities. We believe our cash and cash equivalents, investments and cash generated from operations to be adequate to meet our operating and capital needs for at least the next 12 months.

At September 30, 2018, cash on hand was \$94.2 million and short-term investments were \$5.9 million, which resulted in available short-term liquidity of \$100.1 million, of which \$70.1 million was held by our foreign subsidiaries. At December 31, 2017, cash on hand was \$86.4 million and short-term investments were \$16.1 million, which resulted in available short-term liquidity of \$102.6 million, of which \$56.8 million was held by our foreign subsidiaries. We intend to permanently reinvest the funds held by our foreign subsidiaries outside the U.S. and our current business plans do not indicate a need to repatriate these funds to finance domestic operations. The decrease in short-term liquidity from December 31, 2017 to September 30, 2018 is primarily attributable to shifts among available investment option tenures to provide funds for our short-term cash needs.

Operating Activities

Our working capital, which consists of current assets less current liabilities, decreased 26.5% from \$306.3 million as of December 31, 2017 to \$225.0 million as of September 30, 2018, and our current ratio, defined as current assets divided by current liabilities, decreased from 3.87 as of December 31, 2017 to 2.82 as of September 30, 2018. The decreases in our working capital and current ratio are primarily attributable to decreases in accounts receivable and inventory, and an increase in income tax payable. The quick ratio, defined as cash, cash equivalents, short-term investments, and net accounts receivable, divided by current liabilities, decreased from 2.31 as of December 31, 2017 to 1.63 as of September 30, 2018. The decrease in the quick ratio is primarily attributable to a decrease in accounts receivable and an increase in income tax payable.

Accounts receivable decreased 29.3% from \$144.2 million at December 31, 2017 to \$101.9 million at September 30, 2018. We had no allowance for doubtful accounts at December 31, 2017 or September 30, 2018. Quarterly accounts receivable days sales outstanding (DSO) decreased from 105 days as of December 31, 2017 to 67 days as of September 30, 2018. The decrease in net accounts receivable is due to the collection of customer-specific payment terms that became due in the first quarter of 2018 and the timing of sales and collections during the quarter. Additionally, certain international customers may have longer payment terms than U.S. customers.

Quarterly inventory turnover increased from 2.28 turns as of December 31, 2017 to 2.89 turns at September 30, 2018. Inventory decreased 13.5% from \$122.5 million at December 31, 2017 to \$106.1 million at September 30, 2018. We expect inventory levels to fluctuate as we attempt to maintain sufficient inventory in response to services activity and seasonal cycles of our business, ensuring competitive lead times while managing the risk of inventory obsolescence that may occur due to rapidly changing technology and customer demand.

Prepaid expense and other current assets decreased 39.7% from \$17.3 million at December 31, 2017 to \$10.4 million at September 30, 2018. The decrease in prepaid expenses and other current assets is primarily attributable to the recognition of deferred costs related to network installation services that were completed during the first quarter.

Income tax payable increased 264.3% from \$3.9 million at December 31, 2017 to \$14.3 million at September 30, 2018. The increase in income tax payable is primarily attributable to income taxes accrued for foreign jurisdictions.

Investing Activities

Capital expenditures totaled approximately \$5.7 million and \$12.3 million for the nine months ended September 30, 2018 and 2017, respectively. These expenditures were primarily used to purchase computer hardware, software, manufacturing and test equipment, and building improvements.

Our combined short-term and long-term investments increased \$3.8 million from \$146.4 million at December 31, 2017 to \$150.2 million at September 30, 2018. This increase reflects funds available for investment provided by our operating activities, as well as net realized and unrealized gains and losses and amortization of net premiums on our combined investments, partially offset by our cash needs for capital expenditures, purchases of treasury stock, and shareholder dividends.

We invest all available cash not required for immediate use in operations primarily in securities that we believe bear minimal risk of loss. At September 30, 2018 these investments included corporate bonds of \$25.6 million, municipal fixed-rate bonds of \$1.4 million, asset-backed bonds of \$8.4 million, mortgage/agency-backed bonds of \$5.4 million, U.S. government bonds of \$19.8 million, and foreign government bonds of \$0.6 million. At December 31, 2017, these investments included corporate bonds of \$32.5 million, municipal fixed-rate bonds of \$2.9 million, asset-backed bonds of \$6.5 million, mortgage/agency-backed bonds of \$5.5 million, U.S. government bonds of \$14.3 million, and foreign government bonds of \$0.7 million. As of September 30, 2018, our corporate bonds, municipal fixed-rate bonds, asset-backed bonds, mortgage/agency-backed bonds, U.S. government bonds, and foreign government bonds were classified as available-for-sale and had a combined duration of 1.7 years with an average Standard & Poor's credit rating of AA-. Because our bond portfolio has a high-quality rating and contractual maturities of short duration, we are able to obtain prices for these bonds derived from observable market inputs, or for similar securities traded in an active market, on a daily basis.

Our long-term investments increased 10.7% from \$130.3 million at December 31, 2017 to \$144.2 million at September 30, 2018. Long-term investments at September 30, 2018 and December 31, 2017 included an investment in a certificate of deposit of \$26.7 million and \$27.8 million, respectively, which serves as collateral for our revenue bond. See "Debt" below for additional information. We have various equity investments included in long-term investments with a fair value of \$40.9 million and \$35.7 million, at September 30, 2018 and December 31, 2017, respectively.

Long-term investments at September 30, 2018 and December 31, 2017 also included \$20.9 million and \$19.9 million, respectively, related to our deferred compensation plans, and \$0.5 million of other investments carried at cost, consisting of interests in two private equity funds.

Financing Activities

Dividends

In July 2003, our Board of Directors elected to begin declaring quarterly dividends on our common stock considering the tax treatment of dividends and adequate levels of Company liquidity. During the nine months ended September 30, 2018, we paid dividends totaling \$13.0 million.

Debt

We have amounts outstanding under loans made pursuant to an Alabama State Industrial Development Authority revenue bond (the Bond) which totaled \$26.7 million at September 30, 2018 and December 31, 2017. At September 30, 2018, the estimated fair value of the Bond was approximately \$26.5 million, based on a debt security with a comparable interest rate and maturity and a Standard & Poor's credit rating of AAA. Included in long-term investments are restricted funds in the amount of \$26.7 million and \$27.8 million at September 30, 2018 and December 31, 2017, respectively, which is a collateral deposit against the principal amount of the Bond. We have the right to set-off the balance of the Bond with the collateral deposit in order to reduce the balance of the indebtedness. The Bond matures on January 1, 2020, and bears interest at the rate of 2% per annum. In conjunction with this program, we are eligible to receive certain economic incentives from the state of Alabama that reduce the amount of payroll withholdings we are required to remit to the state for those employment positions that qualify under this program. We are required to make payments in the amounts necessary to pay the interest on the amounts currently outstanding. It is our intent to make annual principal payments in addition to the interest amounts that are due. In connection with this decision, \$1.1 million of the Bond has been classified as a current liability in accounts payable in the Consolidated Balance Sheet at September 30, 2018.

Stock Repurchase Program

Since 1997, our Board of Directors has approved multiple share repurchase programs that have authorized open market repurchase transactions of up to 50.0 million shares of our common stock that are implemented through open market or private purchases from time to time as conditions warrant. During the nine months ended September 30, 2018, we repurchased 0.9 million shares of our common stock at an average price of \$15.75 per share. As of September 30, 2018, we have the authority to purchase an additional 2.7 million shares of our common stock under the current plans approved by the Board of Directors.

Stock Option Exercises

We issued 0.1 million shares of treasury stock during the nine months ended September 30, 2018 to accommodate employee stock option exercises. The stock options had exercise prices ranging from \$15.29 to \$18.97. We received proceeds totaling \$1.3 million from the exercise of these stock options during the nine months ended September 30, 2018.

Off-Balance Sheet Arrangements and Contractual Obligations

We do not have off-balance sheet financing arrangements and have not engaged in any related party transactions or arrangements with unconsolidated entities or other persons that are reasonably likely to materially affect liquidity or the availability of or requirements for capital resources. During the nine months ended September 30, 2018, there have been no material changes in contractual obligations and commercial commitments from those discussed in our most

recent Annual Report on Form 10-K for the year ended December 31, 2017 filed on February 23, 2018 with the SEC.

We have committed to invest up to an aggregate of \$7.9 million in two private equity funds, and we have contributed \$8.4 million as of September 30, 2018, of which \$7.7 million has been applied to these commitments.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to financial market risks, including changes in interest rates, foreign currency rates and prices of marketable equity and fixed-income securities. The primary objective of the large majority of our investment activities is to preserve principal while at the same time achieving appropriate yields without significantly increasing risk. To achieve this objective, a majority of our marketable securities are investment grade corporate bonds, municipal fixed-rate bonds, asset-backed bonds, mortgage/agency-backed bonds, U.S. and foreign government bonds and municipal money market instruments denominated in U.S. dollars. Our investment policy provides limitations for issuer concentration, which limits, at the time of purchase, the concentration in any one issuer to 5% of the market value of our total investment portfolio.

We maintain depository investments with certain financial institutions. Although these depository investments may exceed government insured depository limits, we have evaluated the credit-worthiness of these financial institutions, and determined the risk of material financial loss due to exposure of such credit risk to be minimal. As of September 30, 2018, \$91.3 million of our cash and cash equivalents, primarily certain domestic money market funds and foreign depository accounts, were in excess of government provided insured depository limits.

As of September 30, 2018, approximately \$63.0 million of our cash and investments may be directly affected by changes in interest rates. We have performed a hypothetical sensitivity analysis assuming market interest rates increase or decrease by 50 basis points (bps) for an entire year, while all other variables remain constant. At September 30, 2018, we held \$6.6 million of cash and variable-rate investments where a change in interest rates would impact our interest income. A hypothetical 50 bps decline in interest rates as of September 30, 2018 would reduce annualized interest income on our cash and investments by approximately \$0.1 million. In addition, we held \$56.3 million of fixed-rate bonds whose fair values may be directly affected by a change in interest rates. A hypothetical 50 bps increase in interest rates as of September 30, 2018 would reduce the fair value of our fixed-rate bonds by approximately \$0.5 million.

As of September 30, 2017, approximately \$108.1 million of our cash and investments was subject to being directly affected by changes in interest rates. We have performed a hypothetical sensitivity analysis assuming market interest rates increase or decrease by 50 bps for the entire year, while all other variables remain constant. At September 30, 2017, we held \$39.4 million of cash and variable rate investments where a change in interest rates would impact our interest income. A hypothetical 50 bps decline in interest rates as of September 30, 2017 would have reduced annualized interest income on our cash, money market instruments and variable rate demand notes by approximately \$0.2 million. In addition, we held \$68.7 million of fixed-rate bonds whose fair values may be directly affected by a change in interest rates. A hypothetical 50 bps increase in interest rates as of September 30, 2017 would have reduced the fair value of our fixed-rate bonds by approximately \$0.3 million.

We are exposed to changes in foreign currency exchange rates to the extent that such changes affect our revenue and gross margin on revenue derived from some international customers, expenses, and assets and liabilities held in non-functional currencies related to our foreign subsidiaries. Our primary exposures to foreign currency exchange rates are with our German subsidiary, whose functional currency is the Euro, our Australian subsidiary, whose functional currency is the Australian dollar, and our Mexican subsidiary, whose functional currency is the U.S. dollar. We are exposed to changes in foreign currency exchange rates to the extent of our German subsidiary's use of contract manufacturers and raw material suppliers whom we predominately pay in U.S. dollars. We may establish cash flow hedges utilizing foreign exchange forward contracts to reduce the risk that movements in exchange rates will adversely affect the net cash flows resulting from the planned purchase of products from foreign suppliers. As a result, changes in currency exchange rates could cause variations in gross margin in the products that we sell in the EMEA region.

We have certain customers and suppliers who are invoiced or pay in a non-functional currency. Changes in the monetary exchange rates may adversely affect our results of operations and financial condition, as outstanding

non-functional balances are revalued to the functional currency through profit and loss. When appropriate, we utilize foreign exchange forward contracts to help manage the volatility relating to these valuation exposures. All changes in the fair value of our derivative instruments that do not qualify for or are not designated for hedged accounting transactions are recognized as other income (expense), net in the Consolidated Statements of Income. We do not hold or issue derivative instruments for trading or other speculative purposes. All non-functional currencies billed would result in a combined hypothetical gain or loss of \$0.2 million if the U.S. dollar weakened or strengthened 10% against the billing currencies. Any gain or loss would be partially mitigated by these derivative instruments.

As of September 30, 2018, we had no material contracts, other than accounts receivable and accounts payable, denominated in foreign currencies. As of September 30, 2018, we did not have any forward contracts outstanding.

For further information about the fair value of our investments and our derivative and hedging activities as of September 30, 2018, see Notes 7 and 8 of Notes to Consolidated Financial Statements.

ITEM 4. CONTROLS AND PROCEDURES

(a) *Evaluation of disclosure controls and procedures.* Our Chief Executive Officer and Chief Financial Officer are responsible for establishing and maintaining "disclosure controls and procedures" (as defined in the Securities Exchange Act of 1934 Rules 13a-15(e) and 15d-15(e)) for ADTRAN. Our Chief Executive Officer and Chief Financial Officer, after evaluating the effectiveness of our disclosure controls and procedures as of the end of the period covered by this quarterly report, have concluded that our disclosure controls and procedures are effective.

(b) *Changes in internal control over financial reporting.* There were no changes in our internal control over financial reporting that occurred during our most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1A. RISK FACTORS

A list of factors that could materially affect our business, financial condition or operating results is described in Part I, Item 1A, “Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2017. There have been no material changes to our risk factors since our Annual Report on Form 10-K for the year ended December 31, 2017, other than the following risk factor:

Increased tariffs caused by changes in trade policies of the United States or other countries in which we do business, which could trigger retaliatory actions by affected countries resulting in “trade wars”, may increase costs for material imported into the United States and other countries. This in turn may increase our cost of goods and result in reduced profit margins or customer demand for some of our products or in trading partners limiting their trade with the United States.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

The following table sets forth repurchases of our common stock for the months indicated:

| Period | Total Number of Shares Purchased | Average Price Paid per Share | Total Number of | Maximum Number |
|--|---|---------------------------------------|---|--|
| | | | Shares Purchased as Part of Publicly Announced Plans or Programs | of Shares that May Yet Be Purchased Under the Plans or Programs |
| July 1, 2018 – July 31, 2018 | — | \$ — | — | 2,746,655 |
| August 1, 2018 – August 31, 2018 | 88,139 | \$ 16.02 | 88,139 | 2,658,516 |
| September 1, 2018 – September 30, 2018 | — | \$ — | — | 2,658,516 |
| Total | 88,139 | | 88,139 | |

On July 14, 2015, our Board of Directors authorized the repurchase of an additional 5.0 million shares of our common stock (bringing the total shares authorized for repurchase to 50.0 million). This authorization will be implemented through open market or private purchases from time to time as conditions warrant.

ITEM 6. EXHIBITS

Exhibits.

| <u>Exhibit</u> <u>No.</u> | <u>Description</u> |
|------------------------------|--|
| 31 | <u>Rule 13a-14(a)/15d-14(a) Certifications</u> |
| 32 | <u>Section 1350 Certifications</u> |
| 101.INS | XBRL Instance Document- the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document. |
| 101.SCH | XBRL Taxonomy Extension Schema Document |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document |
| 101.LAB | XBRL Taxonomy Extension Labels Linkbase Document |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document |

SIGNATURE

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.

ADTRAN, Inc.

(Registrant)

Date: November 6, 2018 /s/ Roger D. Shannon
Roger D. Shannon
Senior Vice President of Finance,
Chief Financial Officer,
Corporate Treasurer and Secretary
(Principal Financial Officer)