

TERADYNE, INC
Form 10-Q
May 11, 2018
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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended April 1, 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 No. 001-06462

TERADYNE, INC.

(Exact name of registrant as specified in its charter)

Massachusetts
(State or Other Jurisdiction of

04-2272148
(I.R.S. Employer

Incorporation or Organization)

Identification No.)

600 Riverpark Drive, North Reading,

Massachusetts
(Address of Principal Executive Offices)

01864
(Zip Code)

978-370-2700

(Registrant's Telephone Number, Including Area Code)

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 the filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files) Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, 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 (check one):

Large accelerated filer

Accelerated filer

Non-accelerated filer

(Do not check if a smaller reporting company)

Smaller 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

The number of shares outstanding of the registrant's only class of Common Stock as of May 7, 2018 was 191,316,067 shares.

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TERADYNE, INC.

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| | April 1, 2018 | December 31, 2017 |
|---|--------------------------|------------------------------|
| | (in thousands, | |
| | except per share amount) | |
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 637,873 | \$ 429,843 |
| Marketable securities | 860,526 | 1,347,979 |
| Accounts receivable, less allowance for doubtful accounts of \$2,206 and \$2,219 at April 1, 2018 and December 31, 2017, respectively | 413,978 | 272,783 |
| Inventories, net | 131,857 | 107,525 |
| Prepayments and other current assets | 112,191 | 112,151 |
| Total current assets | 2,156,425 | 2,270,281 |
| Property, plant and equipment, net | 281,284 | 268,447 |
| Marketable securities | 89,259 | 125,926 |
| Deferred tax assets | 77,705 | 84,026 |
| Retirement plans assets | 17,928 | 17,491 |
| Other assets | 12,479 | 12,275 |
| Acquired intangible assets, net | 84,413 | 79,088 |
| Goodwill | 275,700 | 252,011 |
| Total assets | \$ 2,995,193 | \$ 3,109,545 |
| LIABILITIES | | |
| Current liabilities: | | |
| Accounts payable | \$ 103,950 | \$ 86,393 |
| Accrued employees' compensation and withholdings | 86,292 | 141,694 |
| Deferred revenue and customer advances | 85,892 | 83,614 |
| Other accrued liabilities | 64,782 | 59,083 |
| Contingent consideration | 15,581 | 24,497 |
| Income taxes payable | 34,828 | 59,055 |
| Total current liabilities | 391,325 | 454,336 |

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| | | |
|--|---------------------|---------------------|
| Retirement plans liabilities | 124,689 | 119,776 |
| Long-term deferred revenue and customer advances | 21,726 | 30,127 |
| Deferred tax liabilities | 6,185 | 6,720 |
| Long-term other accrued liabilities | 16,683 | 10,273 |
| Long-term contingent consideration | | 20,605 |
| Long-term income taxes payable | 160,181 | 148,075 |
| Long-term debt | 369,421 | 365,987 |
| Total liabilities | 1,090,210 | 1,155,899 |
| Commitments and contingencies (See Note Q) | | |
| SHAREHOLDERS EQUITY | | |
| Common stock, \$0.125 par value, 1,000,000 shares authorized; 193,808 and 195,548 shares issued and outstanding at April 1, 2018 and December 31, 2017, respectively | 24,226 | 24,444 |
| Additional paid-in capital | 1,638,756 | 1,638,413 |
| Accumulated other comprehensive income | 25,881 | 18,776 |
| Retained earnings | 216,120 | 272,013 |
| Total shareholders equity | 1,904,983 | 1,953,646 |
| Total liabilities and shareholders equity | \$ 2,995,193 | \$ 3,109,545 |

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2017, are an integral part of the condensed consolidated financial statements.

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TERADYNE, INC.

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(Unaudited)

| | For the Three Months Ended | |
|--|--|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands, except per share amount) | |
| Revenues: | | |
| Products | \$ 403,925 | \$ 373,204 |
| Services | 83,542 | 83,709 |
| Total revenues | 487,467 | 456,913 |
| Cost of revenues: | | |
| Cost of products | 180,958 | 154,883 |
| Cost of services | 36,677 | 37,014 |
| Total cost of revenues (exclusive of acquired intangible assets amortization shown separately below) | 217,635 | 191,897 |
| Gross profit | 269,832 | 265,016 |
| Operating expenses: | | |
| Selling and administrative | 90,505 | 84,792 |
| Engineering and development | 74,408 | 75,978 |
| Acquired intangible assets amortization | 7,698 | 7,952 |
| Restructuring and other | (313) | 2,511 |
| Total operating expenses | 172,298 | 171,233 |
| Income from operations | 97,534 | 93,783 |
| Non-operating (income) expense: | | |
| Interest income | (5,981) | (3,520) |
| Interest expense | 6,890 | 5,402 |
| Other (income) expense, net | 805 | (115) |
| Income before income taxes | 95,820 | 92,016 |
| Income tax provision | 8,846 | 6,795 |
| Net income | \$ 86,974 | \$ 85,221 |
| Net income per common share: | | |
| Basic | \$ 0.45 | \$ 0.43 |

| | | |
|---|---------|---------|
| Diluted | \$ 0.43 | \$ 0.42 |
| Weighted average common shares basic | 195,255 | 200,005 |
| Weighted average common shares diluted | 203,484 | 201,936 |
| Cash dividend declared per common share | \$ 0.09 | \$ 0.07 |

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2017, are an integral part of the condensed consolidated financial statements.

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TERADYNE, INC.

CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(Unaudited)

| | For the Three Months Ended | |
|---|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Net income | \$ 86,974 | \$ 85,221 |
| Other comprehensive income, net of tax: | | |
| Foreign currency translation adjustment, net of tax of \$0, \$0, respectively | 10,541 | 8,963 |
| Available-for-sale marketable securities: | | |
| Unrealized (losses) gains on marketable securities arising during period, net of tax of \$(718), \$420, respectively | (2,687) | 513 |
| Less: Reclassification adjustment for losses (gains) included in net income, net of tax of \$78, \$(64), respectively | 1,668 | (95) |
| | (1,019) | 418 |
| Defined benefit pension and post-retirement plans: | | |
| Amortization of prior service (credit) cost included in net periodic pension and post-retirement expense/income, net of tax of \$(18), \$(38), respectively | (61) | (68) |
| Other comprehensive income | 9,461 | 9,313 |
| Comprehensive income | \$ 96,435 | \$ 94,534 |

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2017, are an integral part of the condensed consolidated financial statements.

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TERADYNE, INC.

CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(Unaudited)

| | For the Three Months Ended | |
|---|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Cash flows from operating activities: | | |
| Net income | \$ 86,974 | \$ 85,221 |
| Adjustments to reconcile net income to net cash used for operating activities: | | |
| Depreciation | 16,336 | 16,143 |
| Amortization | 9,204 | 11,070 |
| Stock-based compensation | 9,544 | 8,945 |
| Provision for excess and obsolete inventory | 3,522 | 2,726 |
| Deferred taxes | 8,696 | (3,477) |
| Contingent consideration adjustment | (4,968) | 634 |
| Other | 1,393 | 2 |
| Changes in operating assets and liabilities, net of business acquired: | | |
| Accounts receivable | (140,747) | (123,792) |
| Inventories | (21,017) | (62,152) |
| Prepayments and other assets | (679) | 1,104 |
| Accounts payable and other accrued expenses | (46,706) | (7,553) |
| Deferred revenue and customer advances | 9,644 | (3,333) |
| Retirement plans contributions | (1,020) | (947) |
| Income taxes | (12,106) | 14,288 |
| Net cash used for operating activities | (81,930) | (61,121) |
| Cash flows from investing activities: | | |
| Purchases of property, plant and equipment | (34,797) | (22,066) |
| Purchases of marketable securities | (490,324) | (153,317) |
| Proceeds from sales of marketable securities | 800,671 | 213,593 |
| Proceeds from maturities of marketable securities | 212,698 | 88,184 |
| Acquisition of business, net of cash acquired | (25,356) | |
| Net cash provided by investing activities | 462,892 | 126,394 |
| Cash flows from financing activities: | | |
| Issuance of common stock under stock purchase and stock option plans | 10,654 | 15,084 |
| Repurchase of common stock | (134,276) | (37,730) |
| Payments related to net settlement of employee stock compensation awards | (19,629) | (12,289) |
| Dividend payments | (17,588) | (14,021) |

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| | | |
|---|------------|------------|
| Payments of contingent consideration | (13,571) | (1,050) |
| Net cash used for financing activities | (174,410) | (50,006) |
| Effects of exchange rate changes on cash and cash equivalents | 1,478 | 1,595 |
| Increase in cash and cash equivalents | 208,030 | 16,862 |
| Cash and cash equivalents at beginning of period | 429,843 | 307,884 |
| Cash and cash equivalents at end of period | \$ 637,873 | \$ 324,746 |

The accompanying notes, together with the Notes to Consolidated Financial Statements included in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2017, are an integral part of the condensed consolidated financial statements.

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TERADYNE, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(Unaudited)

A. THE COMPANY

Teradyne, Inc. (Teradyne) is a leading global supplier of automation equipment for test and industrial applications. Teradyne designs, develops, manufactures and sells automatic test systems used to test semiconductors, wireless products, data storage and complex electronics systems in the consumer electronics, wireless, automotive, industrial, computing, communications, and aerospace and defense industries. Teradyne s industrial automation products include collaborative robotic arms, and advanced robotic control software used by global manufacturing and light industrial customers to improve quality, increase manufacturing and material handling efficiency and decrease manufacturing costs. Teradyne s automatic test equipment and industrial automation products and services include:

semiconductor test (Semiconductor Test) systems;

defense/aerospace (Defense/Aerospace) test instrumentation and systems, storage test (Storage Test) systems, and circuit-board test and inspection (Production Board Test) systems (collectively these products represent System Test);

industrial automation (Industrial Automation) products; and

wireless test (Wireless Test) systems.

B. ACCOUNTING POLICIES

Basis of Presentation

The consolidated interim financial statements include the accounts of Teradyne and its wholly-owned subsidiaries. All significant intercompany balances and transactions have been eliminated. These interim financial statements are unaudited and reflect all normal recurring adjustments that are, in the opinion of management, necessary for the fair statement of such interim financial statements. Certain prior year amounts were reclassified to conform to the current year presentation. The December 31, 2017 condensed consolidated balance sheet data was derived from audited financial statements, but does not include all disclosures required by accounting principles generally accepted in the United States of America.

The accompanying financial information should be read in conjunction with the consolidated financial statements and notes thereto contained in Teradyne s Annual Report on Form 10-K, filed with the U.S. Securities and Exchange Commission (SEC) on March 1, 2018, for the year ended December 31, 2017.

Preparation of Financial Statements and Use of Estimates

The preparation of consolidated financial statements requires management to make estimates and judgments that affect the amounts reported in the financial statements. Actual results may differ significantly from these estimates.

Revenue from Contracts with Customers

Teradyne adopted Accounting Standards Update (ASU) 2014-09, *Revenue from Contracts with Customers* (ASC 606) on January 1, 2018 using the modified retrospective method for all contracts not completed as of the date of adoption. The reported results for 2018 reflect the application of ASC 606 while the reported results for 2017 were prepared under the guidance of ASC 605, *Revenue Recognition* (ASC 605), which is also referred to herein as Legacy GAAP or the previous guidance. Teradyne recorded a net increase

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to retained earnings of \$12.7 million as of January 1, 2018 due to the cumulative impact of adopting ASC 606. Refer to Note B: Accounting Policies in Teradyne's 2017 Annual Report on Form 10-K for the policies in effect for revenue prior to January 1, 2018. The adoption of ASC 606 represents a change in accounting principle that will more closely align revenue recognition with the delivery of Teradyne's hardware and services and will provide financial statement readers with enhanced disclosures. In accordance with ASC 606, revenue is recognized when or as a customer obtains control of promised goods or services. The amount of revenue recognized reflects the consideration to which Teradyne expects to be entitled to receive in exchange for fulfillment of the performance obligation. Teradyne's primary source of revenue will continue to be from the sale of systems, instruments, robots, and the delivery of services.

In accordance with ASC 606, Teradyne recognizes revenues, when or as control is transferred to a customer. Teradyne's determination of revenue is dependent upon a five step process outlined below.

Step 1: Identify the contract with the customer

Teradyne accounts for a contract with a customer when there is written approval, the contract is committed, the rights of the parties, including payment terms, are identified, the contract has commercial substance and consideration is probable of collection.

Step 2: Identify the performance obligations in the contract

Teradyne periodically enters into contracts with its customers in which a customer may purchase a combination of goods and or services, such as products with extended warranty obligations. Teradyne determines performance obligations by assessing whether the products or services are distinct from the other elements of the contract. In order to be distinct the product or service must perform either on its own or with readily available resources and must be separate within the context of the contract.

Step 3: Determine the transaction price

Teradyne considers the amount stated on the face of the purchase order to be the transaction price. Teradyne does not have material variable consideration which could impact the stated purchase price agreed to by Teradyne and the customer.

Step 4: Allocate the transaction price to the performance obligations in the contract

Transaction price is allocated to each individual performance obligation based on the standalone selling price of that performance obligation. Teradyne uses standalone transactions when available to value each performance obligation. If standalone transactions are not available, Teradyne will estimate the standalone selling price through market assessments or cost plus a reasonable margin analysis. Any discounts from standalone selling price are spread proportionally to each performance obligation.

Step 5: Recognize revenue when (or as) the entity satisfies a performance obligation

In order to determine the appropriate timing for revenue recognition, Teradyne first determines if the transaction meets any of three criteria for over time recognition. If the transaction meets the criteria for over time recognition, Teradyne recognizes revenue as the good or service is delivered. Teradyne uses input variables such as hours or months utilized or costs incurred to determine the amount of revenue to recognize in a given period. Input variables are used as they best align consumption with benefit to the customer. For transactions which do not meet the criteria

for over time recognition, Teradyne will recognize revenue at a point in time based on an assessment of the five criteria for transfer of control. Teradyne has concluded that revenue should be recognized when shipped or delivered based on contractual terms. Typically acceptance of Teradyne's products and services is a formality as Teradyne delivers similar systems, instruments and robots to standard specifications. In cases where acceptance is not deemed a formality, Teradyne will defer revenue recognition until customer acceptance.

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Revenue recognized in accordance with ASC 606 was \$483.2 million for the period ended April 1, 2018. Teradyne also recognized \$4.3 million in revenue on leases of Teradyne systems which are accounted for outside of ASC 606.

Disaggregation of Revenue

The following table provides information about disaggregated revenue by primary geographical market, major product line and timing of revenue recognition.

| | Semiconductor Test | | System Test | | Industrial Automation | | Wireless Test | Corporate and Other | Consolidated |
|---|--------------------|------------------|-------------------|------------------|-----------------------|------------------|------------------|---------------------|-------------------|
| | SOC ⁽¹⁾ | Memory | Defense/Aerospace | Storage Test | Production Board Test | | | | |
| | (in thousands) | | | | | | | | |
| Three Months Ended April 1, 2018 | | | | | | | | | |
| Americas | | | | | | | | | |
| Point in Time | \$ 9,600 | \$ 2,862 | \$ 11,597 | \$ 279 | \$ 1,760 | \$ 14,373 | \$ 4,979 | \$ (221) | \$ 45,229 |
| Over Time | 8,791 | 696 | 6,188 | | 757 | 89 | 112 | | 16,633 |
| Europe, Middle East and Africa | | | | | | | | | |
| Point in Time | 12,125 | 139 | 1,497 | | 4,037 | 22,573 | 1,041 | | 41,412 |
| Over Time | 5,214 | 269 | 551 | | 1,559 | 143 | 227 | | 7,963 |
| Asia Pacific | | | | | | | | | |
| Point in Time | 224,851 | 66,273 | 101 | 10,122 | 1,861 | 11,583 | 13,664 | | 328,455 |
| Over Time | 36,338 | 2,323 | 208 | 1,533 | 735 | 73 | 2,296 | | 43,506 |
| Lease Revenue | 3,847 | | | | 234 | | 188 | | 4,269 |
| Total | \$ 300,766 | \$ 72,562 | \$ 20,142 | \$ 11,934 | \$ 10,943 | \$ 48,834 | \$ 22,507 | \$ (221) | \$ 487,467 |

(1) System on a chip (SOC)
Performance Obligations

Hardware

Teradyne hardware consists primarily of semiconductor test systems and instruments, defense/aerospace test instrumentation and systems, storage test systems and instruments, circuit-board test and inspection systems and instruments, collaborative robots, and wireless test systems. The hardware includes a standard 12 month warranty. This warranty is not considered a distinct performance obligation because it does not obligate Teradyne to provide a separate service to the customer and it cannot be purchased separately. Teradyne's hardware is recognized at a point in time upon transfer of control to the customer.

Extended Warranty

Customers have the option to purchase an extended warranty, which extends the warranty period for systems and robots beyond the one year standard warranty. The extended warranty is purchased in the same transaction as the system or robot purchase and is classified as a separate performance obligation which meets the criteria for over time recognition. The relative standalone selling price of the extended warranty is recognized ratably over the course of the extended warranty based on months completed.

Training and Applications Support

Teradyne sells training and applications support to customers either in standalone transactions or included with system purchases. The training and support allow the customer to use Teradyne's systems efficiently and

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effectively. Training and applications support included in system orders are valued based on their standalone selling price and all training and applications support is recognized over time as the customer receives and consumes the benefit associated with each. Both are recognized using an input method of hours consumed as this best depicts the transfer of services to the customer.

Service Agreements

Service agreements are recognized ratably over the period of agreement based on months completed.

Post-Contract Customer Support (PCS)

Teradyne provides support services for certain systems and robots outside of warranty. These services include telephone support, bug fixes, and when-and-if available upgrades. Standalone selling price for PCS is not directly observable as Teradyne does not sell these services separately. Teradyne has estimated the standalone selling price for these services based on adjusted market assessments. Revenue for PCS is recognized ratably over the performance period.

Teradyne does not allow customer returns or provide refunds to customers for any products or services.

Contract Balances

The following table provides information about contract liabilities. Teradyne does not have material contract assets on the balance sheet.

| | April 1, 2018 | January 1, 2018 (as adjusted) (in thousands) | Increase |
|--|----------------------|---|-----------------|
| Deferred revenue and customer advances | \$ 85,892 | \$ 76,638 | \$ 9,254 |
| Long-term deferred revenue and customer advances | 21,726 | 20,848 | 878 |

The amount of revenue recognized during the quarter ended April 1, 2018 that was included within the deferred revenue and customer advances balance at January 1, 2018 was \$21.8 million and primarily relates to extended warranties, training, application support, and PCS. Each of these represents a distinct performance obligation. Customers typically pay for these services net 30 to 60 days from the date that transfer of control of the associated system or product occurs.

Remaining Performance Obligations

Teradyne does not have material remaining performance obligations from contracts with an original expected duration of greater than one year.

Significant Judgments

Teradyne makes no significant judgments in determining the amount or timing of revenue recognition.

Practical Expedients

Teradyne has adopted the practical expedients available within ASC 340 *Other Assets and Deferred Costs* for contract assets, specifically in relation to incremental costs of obtaining a contract. Teradyne generally expenses sales commissions when incurred because the amortization period would be less than one year. Teradyne records these costs within selling and administrative expenses.

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Teradyne has adopted the practical expedient which states an entity need not adjust the promised amount of consideration for the effects of a significant financing component if the entity expects, at contract inception, that the period between when the entity transfers a promised good or service to the customer and when the customer pays for that good or service will be one year or less. Teradyne does not have material payments associated with performance obligations outside this one year time frame.

Impacts

The following tables summarize the impact of ASC 606 to Teradyne's consolidated financial statements. Differences are the result of timing differences between the recognition of revenue under ASC 606 and ASC 605 primarily with respect to software transactions deferred due to lack of vendor specific objective evidence of price under ASC 605 and Teradyne's assessment of acceptance under ASC 606. Under Legacy GAAP Teradyne did not recognize revenue prior to acceptance if payment, title, or risk of loss was tied to acceptance. Under ASC 606, Teradyne recognizes revenue prior to receipt of acceptance if acceptance is deemed a formality.

Condensed Consolidated Balance Sheet:

| | As reported | April 1, 2018 Adjustments to Recognize under Legacy GAAP (in thousands) | Legacy GAAP |
|--|----------------|---|----------------|
| ASSETS | | | |
| Accounts receivable, less allowance for doubtful accounts | \$ 413,978 | \$ (67,728) | \$ 346,250 |
| Inventories, net | 131,857 | 27,749 | 159,606 |
| Deferred tax assets | 77,705 | 2,923 | 80,628 |
| LIABILITIES | | | |
| Deferred revenue and customer advances | \$ 85,892 | \$ 4,990 | \$ 90,882 |
| Income taxes payable | 34,828 | (5,167) | 29,661 |
| Long-term deferred revenue and customer advances | 21,726 | 9,178 | 30,904 |
| SHAREHOLDERS' EQUITY | | | |
| Retained earnings | \$ 216,120 | \$ (46,057) | \$ 170,063 |

Condensed Consolidated Statement of Operation:

| | As Reported | Three months ended April 1, 2018 Adjustments to Recognize under Legacy GAAP (in thousands except per share amounts) | Legacy GAAP |
|------------------------|----------------|---|----------------|
| Total revenues | \$ 487,467 | \$ (65,642) | \$ 421,825 |
| Total cost of revenues | 217,635 | (27,749) | 189,886 |

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| | | | |
|------------------------------|---------|-----------|---------|
| Income tax provision | 8,846 | (4,515) | 4,331 |
| Net income | 86,974 | (33,378) | 53,596 |
| Net income per common share: | | | |
| Basic | \$ 0.45 | \$ (0.17) | \$ 0.27 |
| Diluted | \$ 0.43 | \$ (0.16) | \$ 0.26 |

Retirement Benefits

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*

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Cost. Teradyne retrospectively adopted the new accounting guidance on presentation of net periodic pension costs and net periodic postretirement benefit costs in the first quarter of 2018. This guidance requires the service cost component of net benefit costs to be reported in the same line item in the consolidated statement of operations as other employee compensation costs. The non-service components of net benefit costs such as interest cost, expected return on assets, amortization of prior service cost, and actuarial gains or losses, are required to be reported separately outside of income or loss from operations. Following the adoption of this guidance, Teradyne continues to record the service cost component in the same line item as other employee compensation costs and the non-service components of net benefit costs such as interest cost, expected return on assets, amortization of prior service cost, and actuarial gains or losses are reported within other (income) expense, net. The retrospective adoption of this standard increased the first quarter of 2017 income from operations by \$0.4 million due to the removal of the non-service component of pension expense and decreased other income (expense), net by the same amount with no impact to net income.

Financial Assets and Financial Liabilities

In January 2016, the FASB issued ASU 2016-01, *Financial Instruments Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*. Teradyne adopted the new accounting guidance in the first quarter of 2018 using the modified retrospective approach. This guidance requires that changes in fair value of equity securities be accounted for directly in earnings. Previously, the changes in fair value were recorded in accumulated other comprehensive income on the balance sheet. Teradyne continues to record realized gains in interest income and realized losses in interest expense. The adoption of this new accounting guidance increased the January 1, 2018 retained earnings balance by \$3.1 million and decreased the accumulated other comprehensive income balance by the same amount.

Contingencies and Litigation

Teradyne may be subject to certain legal proceedings, lawsuits and other claims as discussed in Note Q: Commitments and Contingencies. Teradyne accrues for a loss contingency, including legal proceedings, lawsuits, pending claims and other legal matters, when the likelihood of a loss is probable and the amount of the loss can be reasonably estimated. When the reasonable estimate of the loss is within a range of amounts, and no amount in the range constitutes a better estimate than any other amount, Teradyne accrues the amount at the low end of the range. Teradyne adjusts the accruals from time to time as additional information is received, but the loss incurred may be significantly greater than or less than the amount accrued. Loss contingencies are disclosed when they are material and there is at least a reasonable possibility that a loss has been incurred. Attorney fees related to legal matters are expensed as incurred.

C. RECENTLY ISSUED ACCOUNTING PRONOUNCEMENTS

On January 26, 2017, the FASB issued ASU 2017-04, *Intangibles Goodwill and Other (Topic 350): Simplifying the Accounting for Goodwill Impairment*. The new guidance removes Step 2 of the goodwill impairment test, which requires a hypothetical purchase price allocation. Goodwill impairment will now be the amount by which a reporting unit's carrying value exceeds its fair value, not to exceed the carrying amount of goodwill. All other goodwill impairment guidance will remain largely unchanged. Entities will continue to have the option to perform a qualitative assessment to determine if a quantitative impairment test is necessary. The same one-step impairment test will be applied to goodwill at all reporting units, even those with zero or negative carrying amounts. Entities will be required to disclose the amount of goodwill at reporting units with zero or negative carrying amounts. The revised guidance will be applied prospectively, and is effective in 2020. Early adoption is permitted for any impairment tests performed after January 1, 2017. Teradyne is currently evaluating the impact of this ASU on its financial position, results of operations and statements of cash flows.

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In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*. The guidance in this ASU supersedes the lease recognition requirements in Accounting Standards Codification (ASC) Topic 840,

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Leases. The new standard establishes a right-of-use (ROU) model that requires a lessee to record an ROU asset and a lease liability on the balance sheet for all leases with terms longer than twelve months. Leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the statements of operations. The new standard is effective for annual periods beginning after December 15, 2018 with early adoption permitted. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. Teradyne is currently evaluating the impact of this ASU on its financial position and results of operations.

D. ACQUISITIONS*Energid Technologies Corporation*

On February 26, 2018, Teradyne acquired all the issued and outstanding shares of Energid Technologies Corporation (Energid) for a total preliminary purchase price of approximately \$27.6 million. Energid s technology enables and simplifies the programming of complex robotic motions used in a wide variety of end markets, ranging from heavy industry to healthcare; utilizing both traditional robots and collaborative robots. The Energid acquisition was accounted for as a business combination and, accordingly, Energid s results have been included in Teradyne s Industrial Automation segment from the date of acquisition. As of the acquisition date, Teradyne s preliminary purchase price allocation was goodwill of \$15.7 million, acquired intangible assets of \$10.9 million with an average estimated useful life of 6.1 years, and \$1.0 million of net tangible assets. The acquisition was not material to our condensed consolidated financial statements.

E. INVENTORIES

Inventories, net consisted of the following at April 1, 2018 and December 31, 2017:

| | April 1, 2018 | December 31, 2017 |
|-----------------|--------------------------|------------------------------|
| | (in thousands) | |
| Raw material | \$ 74,762 | \$ 62,668 |
| Work-in-process | 21,256 | 19,464 |
| Finished Goods | 35,839 | 25,393 |
| | \$ 131,857 | \$ 107,525 |

Inventory reserves for the periods ending April 1, 2018 and December 31, 2017 were \$103.4 million and \$102.9 million, respectively.

F. FINANCIAL INSTRUMENTS**Cash Equivalents**

Teradyne considers all highly liquid investments with maturities of three months or less at the date of acquisition to be cash equivalents.

Marketable Securities

Effective January 1, 2018, Teradyne adopted ASU 2016-01, *Financial Instruments Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities* using the modified retrospective approach. This guidance requires that changes in fair value of equity securities be accounted for directly in earnings. Prior to 2018, the changes in fair value of equity securities were recorded in accumulated other comprehensive income on the balance sheet.

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On a quarterly basis, Teradyne reviews its investments to identify and evaluate those that have an indication of a potential other-than-temporary impairment. Factors considered in determining whether a loss is other-than-temporary include:

The length of time and the extent to which the market value has been less than cost;

The financial condition and near-term prospects of the issuer; and

The intent and ability to retain the investment in the issuer for a period of time sufficient to allow for any anticipated recovery in market value.

Teradyne uses the market and income approach techniques to value its financial instruments and there were no changes in valuation techniques during the three months ended April 1, 2018 and April 2, 2017. As defined in ASC 820-10, *Fair Value Measurements and Disclosures*, fair value is the price that would be received from the sale of an asset or paid to transfer a liability in an orderly transaction between market participants. ASC 820-10 requires that assets and liabilities carried at fair value be classified and disclosed in one of the following three categories:

Level 1: Quoted prices in active markets for identical assets as of the reporting date;

Level 2: Inputs other than Level 1, that are observable either directly or indirectly as of the reporting date. For example, a common approach for valuing fixed income securities is the use of matrix pricing. Matrix pricing is a mathematical technique used to value securities by relying on the securities' relationship to other benchmark quoted prices, and is considered a Level 2 input; or

Level 3: Unobservable inputs that are not supported by market data. Unobservable inputs are developed based on the best information available, which might include Teradyne's own data.

Teradyne's available-for-sale debt securities are classified as Level 2, and equity securities are classified as Level 1. Acquisition-related contingent consideration is classified as Level 3. Teradyne determines the fair value of acquisition-related contingent consideration using a Monte Carlo simulation model. Assumptions utilized in the model include forecasted revenues, revenue volatility and discount rate. The vast majority of Level 2 securities are fixed income securities priced by third party pricing vendors. These pricing vendors utilize the most recent observable market information in pricing these securities or, if specific prices are not available, use other observable inputs like market transactions involving identical or comparable securities.

Realized gains recorded in the three months ended April 1, 2018 and April 2, 2017 were \$0.3 million and \$0.3 million, respectively. Realized losses recorded in the three months ended April 1, 2018 and April 2, 2017 were \$1.5 million and \$0.2 million, respectively. Realized gains are included in interest income and realized losses are included in interest expense.

Unrealized gains and losses on available-for-sale debt securities are included in accumulated other comprehensive income (loss). Changes in fair value of equity securities are included in other (income) expense, net. The cost of securities sold is based on the specific identification method.

During the three months ended April 1, 2018 and April 2, 2017, there were no transfers in or out of Level 1, Level 2 or Level 3 financial instruments.

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The following table sets forth by fair value hierarchy Teradyne's financial assets and liabilities that were measured at fair value on a recurring basis as of April 1, 2018 and December 31, 2017.

| | April 1, 2018 | | | Total |
|---|---|---|--|--------------|
| | Quoted Prices in Active Markets for Identical Instruments (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) | |
| (in thousands) | | | | |
| Assets | | | | |
| Cash | \$ 155,543 | \$ | \$ | \$ 155,543 |
| Cash equivalents | 306,710 | 175,620 | | 482,330 |
| Available-for-sale debt securities: | | | | |
| U.S. Treasury securities | | 611,946 | | 611,946 |
| Commercial paper | | 252,158 | | 252,158 |
| Corporate debt securities | | 44,218 | | 44,218 |
| U.S. government agency securities | | 10,726 | | 10,726 |
| Certificates of deposit and time deposits | | 4,824 | | 4,824 |
| Debt mutual funds | 2,741 | | | 2,741 |
| Non-U.S. government securities | | 559 | | 559 |
| Equity securities: | | | | |
| Mutual funds | 22,613 | | | 22,613 |
| | \$ 487,607 | \$ 1,100,051 | \$ | \$ 1,587,658 |
| Derivative assets | | 12 | | 12 |
| Total | \$ 487,607 | \$ 1,100,063 | \$ | \$ 1,587,670 |
| Liabilities | | | | |
| Contingent consideration | \$ | \$ | \$ 15,581 | \$ 15,581 |
| Derivative liabilities | | 224 | | 224 |
| Total | \$ | \$ 224 | \$ 15,581 | \$ 15,805 |

Reported as follows:

| | (Level 1) | (Level 2) | (Level 3) | Total |
|---------------------------|------------|------------|-----------|------------|
| (in thousands) | | | | |
| Assets | | | | |
| Cash and cash equivalents | \$ 462,253 | \$ 175,620 | \$ | \$ 637,873 |

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| | | | | |
|---------------------------------|------------|--------------|-----------|--------------|
| Marketable securities | | 860,526 | | 860,526 |
| Long-term marketable securities | 25,354 | 63,905 | | 89,259 |
| Prepayments | | 12 | | 12 |
| Total | \$ 487,607 | \$ 1,100,063 | \$ | \$ 1,587,670 |
| Liabilities | | . | | |
| Other current liabilities | \$ | \$ 224 | \$ | \$ 224 |
| Contingent consideration | | | 15,581 | 15,581 |
| Total | \$ | \$ 224 | \$ 15,581 | \$ 15,805 |

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| | December 31, 2017 | | | |
|---|---|---|--|---------------------|
| | Quoted Prices in Active Markets for Identical Instruments (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) | Total |
| | (in thousands) | | | |
| Assets | | | | |
| Cash | \$ 197,955 | \$ | \$ | \$ 197,955 |
| Cash equivalents | 206,335 | 25,553 | | 231,888 |
| Available-for-sale securities: | | | | |
| U.S. Treasury securities | | 855,795 | | 855,795 |
| Commercial paper | | 282,840 | | 282,840 |
| Certificates of deposit and time deposits | | 167,342 | | 167,342 |
| Corporate debt securities | | 133,186 | | 133,186 |
| Equity and debt mutual funds | 23,430 | | | 23,430 |
| U.S. government agency securities | | 10,726 | | 10,726 |
| Non-U.S. government securities | | 586 | | 586 |
| | \$ 427,720 | \$ 1,476,028 | \$ | \$ 1,903,748 |
| Derivative assets | | 389 | | 389 |
| Total | \$ 427,720 | \$ 1,476,417 | \$ | \$ 1,904,137 |
| Liabilities | | | | |
| Contingent consideration | \$ | \$ | \$ 45,102 | \$ 45,102 |
| Derivative liabilities | | 446 | | 446 |
| Total | \$ | \$ 446 | \$ 45,102 | \$ 45,548 |

Reported as follows:

| | (Level 1) | (Level 2) | (Level 3) | Total |
|---------------------------------|-------------------|---------------------|-----------|---------------------|
| | (in thousands) | | | |
| Assets | | | | |
| Cash and cash equivalents | \$ 404,290 | \$ 25,553 | \$ | \$ 429,843 |
| Marketable securities | | 1,347,979 | | 1,347,979 |
| Long-term marketable securities | 23,430 | 102,496 | | 125,926 |
| Prepayments | | 389 | | 389 |
| Total | \$ 427,720 | \$ 1,476,417 | \$ | \$ 1,904,137 |
| Liabilities | | | | |

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| | | | | | | |
|------------------------------------|-----------|-----------|------------|------------------|-----------|---------------|
| Other accrued liabilities | \$ | \$ | 446 | \$ | \$ | 446 |
| Contingent consideration | | | | 24,497 | | 24,497 |
| Long-term contingent consideration | | | | 20,605 | | 20,605 |
| Total | \$ | \$ | 446 | \$ 45,102 | \$ | 45,548 |

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Changes in the fair value of Level 3 contingent consideration for the three months ended April 1, 2018 and April 2, 2017 were as follows:

| | For the Three Months Ended | |
|--------------------------------|-----------------------------------|----------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Balance at beginning of period | \$ 45,102 | \$ 38,332 |
| Payments (a) | (24,553) | (1,050) |
| Fair value adjustment (b) | (4,968) | 634 |
| Balance at end of period | \$ 15,581 | \$ 37,916 |

- (a) In the three months ended April 1, 2018, Teradyne paid \$24.6 million of contingent consideration for the earn-out in connection with the acquisition of Universal Robots A/S (Universal Robots). In the three months ended April 2, 2017, Teradyne paid \$1.1 million of contingent consideration for the earn-out in connection with the acquisition of Avionics Interface Technology, LLC (AIT).
- (b) In the three months ended April 1, 2018, the fair value of contingent consideration for the earn-out in connection with the acquisition of Universal Robots was decreased by \$5.0 million, primarily due to a decrease in forecasted revenue. In the three months ended April 2, 2017, the fair value of contingent consideration for the earn-out in connection with the acquisition of Universal Robots was increased by \$0.6 million primarily due to an increase in forecasted revenue and a decrease in the discount rate.

The following table provides quantitative information associated with the fair value measurement of Teradyne's Level 3 financial instruments:

| Liability | April 1, 2018 Fair Value (in thousands) | Valuation Technique | Unobservable Inputs | Weighted Average |
|--------------------------|--|--------------------------------|--|-----------------------------|
| Contingent consideration | | Monte Carlo | | |
| (Universal Robots) | \$ 15,581 | Simulation | Revenue for the period July 1, 2015 - December 31, 2018 volatility Discount Rate | 13.0% 3.8% |

As of April 1, 2018, the significant unobservable inputs used in the Monte Carlo simulation to fair value the Universal Robots contingent consideration include forecasted revenue, revenue volatility and discount rate. Increases or decreases in the inputs would result in a higher or lower fair value measurement. The maximum payment for the remaining Universal Robots revenue earn-out is \$25.0 million.

The carrying amounts and fair values of Teradyne's financial instruments at April 1, 2018 and December 31, 2017 were as follows:

| | April 1, 2018 | | December 31, 2017 | |
|---------------------------|----------------|------------|-------------------|------------|
| | Carrying Value | Fair Value | Carrying Value | Fair Value |
| (in thousands) | | | | |
| Assets | | | | |
| Cash and cash equivalents | \$ 637,873 | \$ 637,873 | \$ 429,843 | \$ 429,843 |
| Marketable securities | 949,785 | 949,785 | 1,473,905 | 1,473,905 |
| Derivative assets | 12 | 12 | 389 | 389 |
| Liabilities | | | | |
| Contingent consideration | 15,581 | 15,581 | 45,102 | 45,102 |
| Derivative liabilities | 224 | 224 | 446 | 446 |
| Convertible debt (1) | 369,421 | 700,626 | 365,987 | 659,525 |

(1) The carrying value represents the bifurcated debt component only, while the fair value is based on quoted market prices for the convertible note which includes the equity conversion features.

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The fair values of accounts receivable, net and accounts payable approximate the carrying value due to the short-term nature of these instruments.

The following table summarize the composition of available-for-sale marketable securities at April 1, 2018:

| | April 1, 2018 | | | | |
|---|----------------|-----------------|-------------------|-------------------|---|
| | Cost | Unrealized Gain | Unrealized (Loss) | Fair Market Value | Fair Market Value of Investments with Unrealized Losses |
| | (in thousands) | | | | |
| U.S. Treasury securities | \$ 614,365 | \$ 19 | \$ (2,438) | \$ 611,946 | \$ 610,938 |
| Commercial paper | 252,579 | 17 | (438) | 252,158 | 249,871 |
| Corporate debt securities | 43,472 | 1,200 | (454) | 44,218 | 17,742 |
| U.S. government agency securities | 10,791 | | (65) | 10,726 | 10,726 |
| Certificates of deposit and time deposits | 4,820 | 4 | | 4,824 | |
| Debt mutual funds | 2,799 | | (58) | 2,741 | 1,679 |
| Non-U.S. government securities | 559 | | | 559 | |
| | \$ 929,385 | \$ 1,240 | \$ (3,453) | \$ 927,172 | \$ 890,956 |

Reported as follows:

| | Cost | Unrealized Gain | Unrealized (Loss) | Fair Market Value | Fair Market Value of Investments with Unrealized Losses |
|---------------------------------|----------------|-----------------|-------------------|-------------------|---|
| | (in thousands) | | | | |
| Marketable securities | \$ 861,794 | \$ 54 | \$ (1,322) | \$ 860,526 | \$ 847,446 |
| Long-term marketable securities | 67,591 | 1,186 | (2,131) | 66,646 | 43,510 |
| | \$ 929,385 | \$ 1,240 | \$ (3,453) | \$ 927,172 | \$ 890,956 |

The following table summarize the composition of available-for-sale marketable securities at December 31, 2017:

| | December 31, 2017 | | | | |
|--|-------------------|-----------------|-------------------|-------------------|--|
| | Cost | Unrealized Gain | Unrealized (Loss) | Fair Market Value | Fair Market Value of Investments with Unrealized |

| | (in thousands) | | | | Losses |
|---|-----------------------|----------|------------|--------------|---------------|
| U.S. Treasury securities | \$ 858,258 | \$ 72 | \$ (2,535) | \$ 855,795 | \$ 850,163 |
| Commercial paper | 283,009 | 18 | (187) | 282,840 | 258,933 |
| Certificates of deposit and time deposits | 167,523 | 6 | (187) | 167,342 | 138,340 |
| Corporate debt securities | 131,179 | 2,380 | (373) | 133,186 | 91,010 |
| Equity and debt mutual funds | 19,403 | 4,102 | (75) | 23,430 | 1,723 |
| U.S. government agency securities | 10,775 | | (49) | 10,726 | 10,726 |
| Non-U.S. government securities | 582 | 4 | | 586 | |
| | \$ 1,470,729 | \$ 6,582 | \$ (3,406) | \$ 1,473,905 | \$ 1,350,896 |

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Reported as follows:

| | Cost | Unrealized Gain | Unrealized (Loss) (in thousands) | Fair Market Value | Fair Market Value of Investments with Unrealized Losses |
|---------------------------------|--------------|----------------------------|---|----------------------------------|--|
| Marketable securities | \$ 1,349,970 | \$ 38 | \$ (2,029) | \$ 1,347,979 | \$ 1,288,844 |
| Long-term marketable securities | 120,759 | 6,544 | (1,377) | 125,926 | 62,052 |
| | \$ 1,470,729 | \$ 6,582 | \$ (3,406) | \$ 1,473,905 | \$ 1,350,896 |

As of April 1, 2018, the fair market value of investments in debt securities with unrealized losses totaled \$891.0 million. Of this value, \$62.1 million had unrealized losses of \$1.6 million for greater than one year and \$828.9 million had unrealized losses of \$1.9 million for less than one year.

As of December 31, 2017, the fair market value of investments with unrealized losses totaled \$1,350.9 million. Of this value, \$141.0 million had unrealized losses of \$1.2 million for greater than one year and \$1,209.9 million had unrealized losses of \$2.2 million for less than one year.

Teradyne reviews its investments to identify and evaluate investments that have an indication of possible impairment. Based on this review, Teradyne determined that the unrealized losses related to these investments at April 1, 2018 and December 31, 2017 were temporary.

The contractual maturities of investments in debt securities held at April 1, 2018 were as follows:

| | April 1, 2018 | |
|------------------------------------|-----------------------|------------------------------|
| | Cost | Fair Market Value |
| | (in thousands) | |
| Due within one year | \$ 861,794 | \$ 860,526 |
| Due after 1 year through 5 years | 10,173 | 10,058 |
| Due after 5 years through 10 years | 14,583 | 13,823 |
| Due after 10 years | 40,036 | 40,024 |
| Total | \$ 926,586 | \$ 924,431 |

Contractual maturities of investments in debt securities held at April 1, 2018 exclude \$2.7 million of debt mutual funds as they do not have a contractual maturity date.

Derivatives

Teradyne conducts business in a number of foreign countries, with certain transactions denominated in local currencies. The purpose of Teradyne's foreign currency management is to minimize the effect of exchange rate fluctuations on certain foreign currency denominated monetary assets and liabilities. Teradyne does not use derivative financial instruments for trading or speculative purposes.

To minimize the effect of exchange rate fluctuations associated with the remeasurement of monetary assets and liabilities denominated in foreign currencies, Teradyne enters into foreign currency forward contracts. The change in fair value of these derivatives is recorded directly in earnings, and is used to offset the change in value of monetary assets and liabilities denominated in foreign currencies.

The notional amount of foreign currency forward contracts at April 1, 2018 and December 31, 2017 was \$108.8 million and \$116.8 million, respectively.

Gains and losses on foreign currency forward contracts and foreign currency remeasurement gains and losses on monetary assets and liabilities are included in other (income) expense, net.

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The following table summarizes the fair value of derivative instruments as of April 1, 2018 and December 31, 2017:

| | Balance Sheet Location | April 1, 2018 | December 31, 2017 |
|---|-----------------------------------|--------------------------|------------------------------|
| (in thousands) | | | |
| Derivatives not designated as hedging instruments: | | | |
| Foreign currency forward contracts assets | Prepayments | \$ 12 | \$ 389 |
| Foreign currency forward contracts liabilities | Other current liabilities | (224) | (446) |
| Total derivatives | | \$ (212) | \$ (57) |

The following table summarizes the effect of derivative instruments recognized in the statement of operations for the three months ended April 1, 2018 and April 2, 2017.

| | Location of Losses Recognized in | For the Three Months Ended | |
|---|---|---------------------------------------|--------------------------|
| | Statement of Operations | April 1, 2018 | April 2, 2017 |
| (in thousands) | | | |
| Derivatives not designated as hedging instruments: | | | |
| Foreign currency forward contracts | Other (income) expense, net | \$ 1,575 | \$ 1,011 |

- (1) The table does not reflect the corresponding gains and losses from the remeasurement of monetary assets and liabilities denominated in foreign currencies.
- (2) For the three months ended April 1, 2018 and April 2, 2017, net gains from the remeasurement of monetary assets and liabilities denominated in foreign currencies were \$0.6 million and \$1.5 million, respectively.
- See Note G: Debt regarding derivatives related to the convertible senior notes.

G. DEBT**Convertible Senior Notes**

On December 12, 2016, Teradyne completed a private offering of \$460.0 million convertible senior unsecured notes (the Notes). The Notes will mature on December 15, 2023, unless earlier repurchased or converted. The Notes bear interest from December 12, 2016 at a rate of 1.25% per year payable semi-annually in arrears on June 15 and December 15 of each year, beginning on June 15, 2017.

The Notes will be convertible at the option of the noteholders at any time prior to the close of business on the business day immediately preceding September 15, 2023, under the following circumstances: (1) during any calendar quarter beginning after March 31, 2017 (and only during such calendar quarter), if the closing sale price of Teradyne's common stock, for at least 20 trading days (whether or not consecutive) during a period of 30 consecutive trading days ending on the last trading day of the immediately preceding calendar quarter is greater than 130% of the

conversion price on each applicable trading day; (2) during the five business day period after any five consecutive trading day period (the measurement period) in which the trading price (as defined in the Indenture) per \$1,000 principal amount of Notes for each trading day of the measurement period was less than 98% of the product of the closing sale price of the Teradyne's common stock and the conversion rate on each such trading day; and (3) upon the occurrence of specified corporate events. On or after September 15, 2023 until the close of business on the second scheduled trading day immediately preceding the maturity date, holders may convert their Notes at any time, regardless of the foregoing circumstances. Teradyne may satisfy its conversion obligation by paying or delivering cash, shares of its common stock or a combination of cash and shares of its common stock, at Teradyne's election. As of December 31, 2017 the conversion price was approximately \$31.80 per share of Teradyne's common stock. The conversion rate is subject to adjustment under certain circumstances.

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Concurrent with the offering of the Notes, Teradyne entered into convertible note hedge transactions (the Note Hedge Transactions) with the initial purchasers or their affiliates (the Option Counterparties). The Note Hedge Transactions cover, subject to customary anti-dilution adjustments, the number of shares of the common stock that underlie the Notes, with a strike price equal to the conversion price of the Notes of \$31.80. The Note Hedge Transactions cover, subject to customary anti-dilution adjustments, approximately 14.5 million shares of Teradyne s common stock.

The convertible note hedge is considered indexed to Teradyne s stock as the terms of the Note Hedge Transactions do not contain an exercise contingency and the settlement amount equals the difference between the fair value of a fixed number of Teradyne s shares and a fixed strike price. Because the only variable that can affect the settlement amount is Teradyne s stock price, which is an input to the fair value of a fixed-for-fixed option contract, the convertible note hedge is considered indexed to Teradyne s stock.

Separately and concurrent with the pricing of the Notes, Teradyne entered into warrant transactions with the Option Counterparties (the Warrant Transactions) in which it sold net-share-settled (or, at its election subject to certain conditions, cash-settled) warrants to the Option Counterparties. The Warrant Transactions cover, subject to customary anti-dilution adjustments, approximately 14.5 million shares of common stock. As of December 31, 2017, the strike price of the warrants was approximately \$39.91 per share. The strike price is subject to adjustments under certain circumstances. The Warrant Transactions could have a dilutive effect to Teradyne s common stock to the extent that the market price per share of Teradyne s common stock, as measured under the terms of the Warrant Transactions, exceeds the applicable strike price of the warrants.

The Note Hedge Transactions are expected to reduce the potential dilution to Teradyne s common stock upon any conversion of the Notes. However, the Warrant Transactions could separately have a dilutive effect to the extent that the market value per share of Teradyne s common stock exceeds the applicable strike price of the warrant. The net cost of the Notes Hedge Transactions, after being partially offset by the proceeds from the sale of the warrants, was approximately \$33 million.

In connection with establishing their initial hedge of these convertible note hedge and warrant transactions, the Option Counterparties have entered into various derivative transactions with respect to Teradyne s common stock and/or purchased shares of Teradyne s common stock or other securities, including the Notes, concurrent with, or shortly after, the pricing of the Notes. In addition, the Option Counterparties may modify their hedge positions by entering into or unwinding various derivative transactions with respect to Teradyne s common stock or by selling Teradyne s common stock or other securities, including the Notes, in secondary market transactions (and may do so during any observation period related to the conversion of the Notes). These activities could adversely affect the value of Teradyne s common stock and the Notes.

Teradyne s effective annual interest rate on the Notes will be approximately 5.0%. The Notes are classified as long-term debt in the balance sheet based on their December 15, 2023 maturity date. Debt issuance costs of approximately \$7.2 million are being amortized to interest expense using the effective interest method over the seven year term of the Notes. As of April 1, 2018, unamortized debt issuance costs were approximately \$6.0 million.

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The below tables represent the key components of Teradyne's convertible senior notes:

| | April 1, 2018 | December 31, 2017 |
|---|----------------|-------------------|
| | (in thousands) | |
| Debt Principal | \$ 460,000 | \$ 460,000 |
| Unamortized discount | 90,579 | 94,013 |
| Net Carrying amount of convertible debt | \$ 369,421 | \$ 365,987 |

| | For the Three Months Ended | |
|---|----------------------------|---------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Contractual interest expense on the coupon | \$ 1,438 | \$ 1,438 |
| Amortization of the discount component and debt issue fees recognized as interest expense | 3,434 | 3,268 |
| Total interest expense on the convertible debt | \$ 4,872 | \$ 4,706 |

As of April 1, 2018, the remaining unamortized discount was \$90.6 million, which will be amortized over 5.8 years using the effective interest rate method. The carrying amount of the equity component was \$100.8 million. As of April 1, 2018, the conversion rate was equal to the initial conversion price of approximately \$31.80 per share and the if-converted value of the Notes was \$661.2 million.

Revolving Credit Facility

On April 27, 2015, Teradyne entered into a Credit Agreement (the "Credit Agreement") with Barclays Bank PLC, as administrative agent and collateral agent, and the lenders party thereto. The Credit Agreement provides for a five-year, senior secured revolving credit facility of up to \$350 million (the "Credit Facility"). The Credit Agreement further provides that, subject to customary conditions, Teradyne may seek to obtain from existing or new lenders incremental commitments under the Credit Facility in an aggregate principal amount not to exceed \$150 million.

Proceeds from the Credit Facility may be used for general corporate purposes and working capital. Teradyne incurred \$2.3 million in costs related to the revolving credit facility. These costs are being amortized over the five-year term of the revolving credit facility and are included in interest expense in the statements of operations. As of May 11, 2018, Teradyne has not borrowed any funds under the Credit Facility.

The interest rates applicable to loans under the Credit Facility are, at Teradyne's option, equal to either a base rate plus a margin ranging from 0.00% to 1.00% per annum or LIBOR plus a margin ranging from 1.00% to 2.00% per annum, based on the Consolidated Leverage Ratio of Teradyne and its Restricted Subsidiaries. In addition, Teradyne will pay a commitment fee on the unused portion of the commitments under the Credit Facility ranging from 0.125% to 0.350% per annum, based on the then applicable Consolidated Leverage Ratio.

Teradyne is not required to repay any loans under the Credit Facility prior to maturity, subject to certain customary exceptions. Teradyne is permitted to prepay all or any portion of the loans under the Credit Facility prior to maturity without premium or penalty, other than customary LIBOR breakage costs.

The Credit Agreement contains customary events of default, representations, warranties and affirmative and negative covenants that, among other things, limit Teradyne's and its Restricted Subsidiaries' ability to sell assets, grant liens on assets, incur other secured indebtedness and make certain investments and restricted payments, all subject to exceptions set forth in the Credit Agreement. The Credit Agreement also requires Teradyne to satisfy two financial ratios measured as of the end of each fiscal quarter: a consolidated leverage ratio and an interest coverage ratio. As of May 11, 2018, Teradyne was in compliance with all covenants.

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The Credit Facility is guaranteed by certain of Teradyne's domestic subsidiaries and collateralized by assets of Teradyne and such subsidiaries, including a pledge of 65% of the capital stock of certain foreign subsidiaries.

H. PREPAYMENTS

Prepayments consist of the following and are included in prepayments on the balance sheet:

| | April 1, 2018 | December 31, 2017 |
|--|--------------------------|------------------------------|
| | (in thousands) | |
| Contract manufacturer and supplier prepayments | \$ 76,204 | \$ 82,503 |
| Prepaid maintenance and other services | 8,449 | 8,189 |
| Prepaid taxes | 9,938 | 5,039 |
| Other prepayments | 11,964 | 12,386 |
| Total prepayments | \$ 106,555 | \$ 108,117 |

I. DEFERRED REVENUE AND CUSTOMER ADVANCES

Deferred revenue and customer advances consist of the following and are included in short and long-term deferred revenue and customer advances on the balance sheet:

| | April 1, 2018 | December 31, 2017 |
|---|--------------------------|------------------------------|
| | (in thousands) | |
| Maintenance and training | \$ 59,365 | \$ 57,256 |
| Extended warranty | 24,590 | 24,438 |
| Customer advances, undelivered elements and other | 23,663 | 32,047 |
| Total deferred revenue and customer advances | \$ 107,618 | \$ 113,741 |

J. PRODUCT WARRANTY

Teradyne generally provides a one-year warranty on its products, commencing upon installation, acceptance, delivery or shipment. A provision is recorded upon revenue recognition to cost of revenues for estimated warranty expense based on historical experience. Related costs are charged to the warranty accrual as incurred. The warranty balance below is included in other accrued liabilities on the balance sheet.

**For the Three
Months
Ended**

| | April 1, 2018 | April 2, 2017 |
|--|--------------------------|--------------------------|
| | (in thousands) | |
| Balance at beginning of period | \$ 8,200 | \$ 7,203 |
| Accruals for warranties issued during the period | 3,063 | 3,021 |
| Adjustments related to pre-existing warranties | (139) | (471) |
| Settlements made during the period | (3,576) | (2,699) |
| Balance at end of period | \$ 7,548 | \$ 7,054 |

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When Teradyne receives revenue for extended warranties, beyond one year, it is deferred and recognized on a straight-line basis over the contract period. Related costs are expensed as incurred. The balance below is included in short and long-term deferred revenue and customer advances on the balance sheet.

| | For the Three Months Ended | |
|---|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Balance at beginning of period | \$ 24,438 | \$ 28,200 |
| Deferral of new extended warranty revenue | 5,139 | 4,048 |
| Recognition of extended warranty deferred revenue | (4,987) | (7,279) |
| Balance at end of period | \$ 24,590 | \$ 24,969 |

K. STOCK-BASED COMPENSATION

Under Teradyne's stock compensation plans, Teradyne grants stock options, restricted stock units and performance-based restricted stock units, and employees are eligible to purchase Teradyne's common stock through its Employee Stock Purchase Plan (ESPP).

Stock options to purchase Teradyne's common stock at 100% of the fair market value on the grant date vest in equal annual installments over four years from the grant date and have a maximum term of seven years.

Time-based restricted stock unit awards granted to employees vest in equal annual installments over four years. Restricted stock unit awards granted to non-employee directors vest after a one year period, with 100% of the award vesting on the earlier of (a) the first anniversary of the grant date or the (b) the date of the following year's Annual Meeting of Shareholders. Teradyne expenses the cost of the restricted stock unit awards subject to time-based vesting, which is determined to be the fair market value of the shares at the date of grant, ratably over the period during which the restrictions lapse.

Commencing in January 2014, Teradyne granted performance-based restricted stock units (PRSUs) to its executive officers with a performance metric based on relative total shareholder return (TSR). For TSR grants issued in 2018 and 2017, Teradyne's three-year TSR performance is measured against the New York Stock Exchange (NYSE) Composite Index. The final number of TSR PRSUs that vest will vary based upon the level of performance achieved from 200% to 0% of the target shares capped at four times the grant date value. The TSR PRSUs will vest upon the three-year anniversary of the grant date. The TSR PRSUs are valued using a Monte Carlo simulation model. The number of units expected to be earned, based upon the achievement of the TSR market condition, is factored into the grant date Monte Carlo valuation. Compensation expense is recognized on a straight-line basis over the shorter of the three-year service period or the period from the grant date to the date described in the retirement provisions below. Compensation expense for employees meeting the retirement provisions prior to the grant date will be recognized in full on the date of the grant. Compensation expense is recognized regardless of the eventual number of units that are earned based upon the market condition, provided the executive officer remains an employee at the end of the three-year period. Compensation expense is reversed if at any time during the three-year service period the executive officer is no longer an employee, subject to the retirement and termination eligibility provisions noted below.

In January 2018 and 2017, Teradyne granted PRSUs to its executive officers with a performance metric based on three-year cumulative non-GAAP profit before interest and tax (PBIT) as a percent of Teradyne s revenue. Non-GAAP PBIT is a financial measure equal to GAAP income from operations less restructuring and other, net; amortization of acquired intangible assets; acquisition and divestiture related charges or credits; pension actuarial gains and losses; non-cash convertible debt interest expense; and other non-recurring gains and charges. The final number of PBIT PRSUs that vest will vary based upon the level of performance achieved from

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200% to 0% of the target shares. The PBIT PRSUs will vest upon the three-year anniversary of the grant date. Compensation expense is recognized on a straight-line basis over the shorter of the three year service period or the period from the grant date to the date described in the retirement provisions below. Compensation expense for employees meeting the retirement provisions prior to the grant date will be recognized in full on the date of grant. Compensation expense is recognized based on the number of units that are earned based upon the three-year Teradyne PBIT as a percent of Teradyne's revenue, provided the executive officer remains an employee at the end of the three-year period subject to the retirement and termination eligibility provisions noted below.

Beginning with PRSUs granted in January 2014, if the recipient's employment ends prior to the determination of the performance percentage due to (1) permanent disability or death or (2) retirement or termination other than for cause, after attaining both at least age sixty and at least ten years of service, then all or a portion of the recipient's PRSUs (based on the actual performance percentage achieved on the determination date) will vest on the date the performance percentage is determined. Except as set forth in the preceding sentence, no PRSUs will vest if the executive officer is no longer an employee at the end of the three-year period.

During the three months ended April 1, 2018 and April 2, 2017, Teradyne granted 0.1 million and 0.1 million TSR PRSUs, respectively, with a grant date fair value of \$54.85 and \$35.66, respectively. The fair value was estimated using the Monte Carlo simulation model with the following assumptions:

| | For the Three Months Ended | |
|--|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| Risk-free interest rate | 2.2% | 1.5% |
| Teradyne volatility-historical | 26.8% | 26.6% |
| NYSE Composite Index volatility-historical | 12.4% | 13.4% |
| Dividend yield | 0.8% | 1.0% |

Expected volatility was based on the historical volatility of Teradyne's stock and the NYSE Composite Index for the 2018 and 2017 grant over the most recent three year period. The risk-free interest rate was determined using the U.S. Treasury yield curve in effect at the time of grant. Dividend yield was based upon an estimated annual dividend amount of \$0.36 per share for 2018 grants and \$0.28 per share for 2017 grants, divided by Teradyne's stock price on the grant date of \$47.70 for the 2018 grant and \$28.56 for the 2017 grant.

During the three months ended April 1, 2018 and April 2, 2017, Teradyne granted 0.1 million and 0.1 million, respectively, of PBIT PRSUs with a grant date fair value of \$46.62 and \$27.72, respectively.

During the three months ended April 1, 2018, Teradyne granted 0.5 million of service-based restricted stock unit awards to employees at a weighted average grant date fair value of \$46.58 and 0.1 million of service-based stock options to executive officers at a weighted average grant date fair value of \$12.17.

During the three months ended April 2, 2017, Teradyne granted 0.8 million of service-based restricted stock unit awards to employees at a weighted average grant date fair value of \$27.86 and 0.1 million of service-based stock options to executive officers at a weighted average grant date fair value of \$7.13.

Restricted stock unit awards granted to employees vest in equal annual installments over four years. Stock options vest in equal annual installments over four years and have a term of seven years from the date of grant.

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The fair value of stock options was estimated using the Black-Scholes option-pricing model with the following assumptions:

| | For the Three Months Ended | |
|-------------------------|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| Expected life (years) | 5.0 | 5.0 |
| Risk-free interest rate | 2.4% | 2.0% |
| Volatility-historical | 26.4% | 27.8% |
| Dividend yield | 0.8% | 1.0% |

Teradyne determined the stock options' expected life based upon historical exercise data for executive officers, the age of the executive officers and the terms of the stock option grant. Volatility was determined using historical volatility for a period equal to the expected life. The risk-free interest rate was determined using the U.S. Treasury yield curve in effect at the time of grant. Dividend yield was based upon an estimated annual dividend amount of \$0.36 per share for 2018 grants and \$0.28 per share for 2017 grants divided by Teradyne's stock price on the grant date of \$47.70 for the 2018 grant and \$28.56 for the 2017 grant.

L. ACCUMULATED OTHER COMPREHENSIVE INCOME

Changes in accumulated other comprehensive income, which are presented net of tax, consist of the following:

| | For the Three Months Ended April 1, 2018 | | | |
|--|--|---|--|--------------|
| | Foreign Currency Translation Adjustment | Unrealized Gains (Losses) on Marketable Securities (in thousands) | Retirement Plans Prior Service Credit | Total |
| Three Months Ended April 1, 2018 | | | | |
| Balance at December 31, 2017, net of tax of \$0, \$1,815, \$(932), respectively | \$ 15,919 | \$ 1,362 | \$ 1,495 | \$ 18,776 |
| Other comprehensive income (loss) before reclassifications, net of tax of \$0, \$(718), \$0, respectively | 10,541 | (2,687) | | 7,854 |
| Amounts reclassified from accumulated other comprehensive income, net of tax of \$0, \$78, \$(18), respectively | | 1,668 | (61) | 1,607 |
| Net current period other comprehensive income (loss), net of tax of \$0, \$(640), \$(18), respectively | 10,541 | (1,019) | (61) | 9,461 |
| Reclassification of income tax effects from the Tax Reform Act, net of tax of \$0, \$(691), \$(78), respectively (a) | | 691 | 78 | 769 |
| Reclassification of unrealized gains on equity securities, net of tax of \$0, \$(902), \$0, respectively (b) | | (3,125) | | (3,125) |

| | | | | |
|--|-----------|------------|----------|-----------|
| Balance at April 1, 2018, net of tax of \$0, \$(418), \$(1,028), respectively | \$ 26,460 | \$ (2,091) | \$ 1,512 | \$ 25,881 |
|--|-----------|------------|----------|-----------|

- (a) In the three months ended April 1, 2018, Teradyne early adopted the ASU 2018-02, *Income Statement Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income*. As a result, the stranded tax effects resulting from the Tax Reform Act enacted in December 2017 was reclassified from accumulated other comprehensive income to retained earnings.
- (b) In the three months ended April 1, 2018, Teradyne adopted the ASU 2016-01, *Financial Instruments Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*. See Note B: Accounting Policies.

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| | For the Three Months ended April 2, 2017 | | | Total |
|---|---|---|--|-------------|
| | Foreign Currency Translation Adjustments | Unrealized Gains (Losses) on Marketable Securities (in thousands) | Retirement Plans Prior Service Credit | |
| Three Months Ended April 2, 2017 | | | | |
| Balance at December 31, 2016, net of tax of \$0, \$209, \$(778), respectively | \$ (21,921) | \$ (60) | \$ 1,767 | \$ (20,214) |
| Other comprehensive income before reclassifications, net of tax of \$0, \$420, \$0, respectively | 8,963 | 513 | | 9,476 |
| Amounts reclassified from accumulated other comprehensive income, net of tax of \$0, \$(64), \$(38), respectively | | (95) | (68) | (163) |
| Net current period other comprehensive income (loss), net of tax of \$0, \$356, \$(38), respectively | 8,963 | 418 | (68) | 9,313 |
| Balance as April 2, 2017, net of tax of \$0, \$565, \$(816), respectively | \$ (12,958) | \$ 358 | \$ 1,699 | \$ (10,901) |

Reclassifications out of accumulated other comprehensive income (loss) to the statement of operations for the three months ended April 1, 2018 and April 2, 2017 were as follows:

| Details about Accumulated Other Comprehensive (Loss) Income Components | For the Three Months Ended | | Affected Line Item in the Statements of Operations |
|--|-------------------------------|------------------|--|
| | April 1, 2018 | April 2, 2017 | |
| Available-for-sale marketable securities: | | | |
| Unrealized (losses) gains, net of tax of \$(78), \$64, respectively | \$ (1,668) | \$ 95 | Interest (expense) income |
| Defined benefit pension and postretirement plans: | | | |
| Amortization of prior service credit, net of tax of \$18, \$38, respectively | 61 | 68 | (a) |
| Total reclassifications, net of tax of \$(60), \$102, respectively | \$ (1,607) | \$ 163 | Net income |

(a) The amortization of prior service credit is included in the computation of net periodic pension cost and postretirement benefit; see Note P: Retirement Plans.

M. GOODWILL AND ACQUIRED INTANGIBLE ASSETS*Goodwill*

Teradyne performs its annual goodwill impairment test as required under the provisions of ASC 350-10, *Intangibles Goodwill and Other* on December 31 of each fiscal year unless interim indicators of impairment exist. Goodwill is considered impaired when the net book value of a reporting unit exceeds its estimated fair value.

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The changes in the carrying amount of goodwill by reportable segments for the three months ended April 1, 2018, were as follows:

| | Wireless Test | Industrial Automation | System Test | Semiconductor Test | Total |
|---|------------------|--------------------------|----------------|-----------------------|--------------|
| | (in thousands) | | | | |
| Balance at December 31, 2017 | | | | | |
| Goodwill | \$ 361,819 | \$ 233,519 | \$ 158,699 | \$ 260,540 | \$ 1,014,577 |
| Accumulated impairment losses | (353,843) | | (148,183) | (260,540) | (762,566) |
| | 7,976 | 233,519 | 10,516 | | 252,011 |
| Energy acquisition | | 15,654 | | | 15,654 |
| Foreign currency translation adjustment | | 8,035 | | | 8,035 |
| Balance at April 1, 2018 | | | | | |
| Goodwill | 361,819 | 257,208 | 158,699 | 260,540 | 1,038,266 |
| Accumulated impairment losses | (353,843) | | (148,183) | (260,540) | (762,566) |
| | \$ 7,976 | \$ 257,208 | \$ 10,516 | \$ | \$ 275,700 |

Intangible Assets

Teradyne reviews long-lived assets for impairment whenever events or changes in business circumstances indicate that the carrying amount of the assets may not be fully recoverable or that the useful lives of these assets are no longer appropriate.

Amortizable intangible assets consist of the following and are included in intangible assets, net on the balance sheet:

| | April 1, 2018 | | | |
|---------------------------|---------------------------------|-----------------------------|--|---------------------------|
| | Gross Carrying Amount (1) | Accumulated Amortization | Foreign Currency Translation Adjustment | Net Carrying Amount |
| | (in thousands) | | | |
| Developed technology | \$ 276,417 | \$ (231,266) | \$ 3,214 | \$ 48,365 |
| Customer relationships | 96,771 | (84,940) | 340 | 12,171 |
| Tradenames and trademarks | 51,120 | (28,108) | 825 | 23,837 |
| Non-compete agreement | 320 | (280) | | 40 |
| Total intangible assets | \$ 424,628 | \$ (344,594) | \$ 4,379 | \$ 84,413 |

December 31, 2017

| | Gross Carrying Amount | Accumulated Amortization | Foreign Currency Translation Adjustment | Net Carrying Amount |
|--------------------------------|--------------------------------------|-------------------------------------|--|------------------------------------|
| | (in thousands) | | | |
| Developed technology | \$ 270,877 | \$ (226,190) | \$ 1,618 | \$ 46,305 |
| Customer relationships | 92,741 | (83,585) | 171 | 9,327 |
| Tradenames and trademarks | 50,100 | (27,120) | 416 | 23,396 |
| Non-compete agreement | 320 | (260) | | 60 |
| Total intangible assets | \$ 414,038 | \$ (337,155) | \$ 2,205 | \$ 79,088 |

(1) Gross carrying amount includes \$10.9 million of Energid acquired intangible assets. Aggregate intangible asset amortization expense was \$7.7 million and \$8.0 million, respectively, for the three months ended April 1, 2018 and April 2, 2017.

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Estimated intangible asset amortization expense for each of the five succeeding fiscal years is as follows:

| Year | Amortization Expense (in thousands) |
|------------------|--|
| 2018 (remainder) | 24,236 |
| 2019 | 28,316 |
| 2020 | 13,171 |
| 2021 | 5,298 |
| 2022 | 4,493 |
| Thereafter | 8,899 |

N. NET INCOME PER COMMON SHARE

The following table sets forth the computation of basic and diluted net income per common share:

| | For the Three Months Ended | |
|---|--|---------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands, except per share amounts) | |
| Net income for basic and diluted net income per share | \$ 86,974 | \$ 85,221 |
| Weighted average common shares-basic | 195,255 | 200,005 |
| Effect of dilutive potential common shares: | | |
| Incremental shares from assumed conversion of convertible notes (1) | 4,398 | |
| Convertible note hedge warrant shares (2) | 1,830 | |
| Restricted stock units | 1,666 | 1,533 |
| Stock options | 321 | 390 |
| Employee stock purchase plan | 14 | 8 |
| Dilutive potential common shares | 8,229 | 1,931 |
| Weighted average common shares-diluted | 203,484 | 201,936 |
| Net income per common share-basic | \$ 0.45 | \$ 0.43 |
| Net income per common share-diluted | \$ 0.43 | \$ 0.42 |

- (1) Incremental shares from assumed conversion of the convertible notes was calculated using the difference between the average Teradyne stock price for the period and the conversion price of \$31.80, multiplied by 14.5 million shares. The result of this calculation, representing the total intrinsic value of the convertible debt, was divided by the average Teradyne stock price for the period.

- (2) Convertible notes hedge warrant shares were calculated using the difference between the average Teradyne stock price for the period and the warrant price of \$39.91, multiplied by 14.5 million shares. The result of this calculation, representing the total intrinsic value of the warrant, was divided by the average Teradyne stock price for the period.

The computation of diluted net income per common share for the three months ended April 1, 2018 excludes the effect of the potential vesting of 0.4 million shares of restricted stock units because the effect would have been anti-dilutive.

The computation of diluted net income per common share for the three months ended April 2, 2017 excludes the effect of the potential exercise of stock options to purchase approximately 0.1 million shares because the effect would have been anti-dilutive.

Table of Contents**O. RESTRUCTURING AND OTHER**

During the three months ended April 1, 2018, Teradyne recorded a \$5.0 million credit for the decrease in the fair value of the Universal Robots contingent consideration liability, partially offset by \$3.9 million recorded for employee severance charges, primarily in Semiconductor Test, and \$0.8 million of acquisition related expenses.

During the three months ended April 2, 2017, Teradyne recorded \$2.5 million of restructuring and other charges of which \$1.3 million was for a lease impairment of a Wireless Test facility in Sunnyvale, CA which was terminated in September 2017, \$0.6 million was for employee severance charges, and \$0.6 million for the increase in the fair value of the Universal Robots contingent consideration liability.

P. RETIREMENT PLANS

ASC 715, *Compensation Retirement Benefits* requires an employer with defined benefit plan or other postretirement benefit plan to recognize an asset or a liability on its balance sheet for the overfunded or underfunded status of the plan. The pension asset or liability represents a difference between the fair value of the pension plan's assets and the projected benefit obligation.

Defined Benefit Pension Plans

Teradyne has defined benefit pension plans covering a portion of domestic employees and employees of certain non-U.S. subsidiaries. Benefits under these plans are based on employees' years of service and compensation. Teradyne's funding policy is to make contributions to these plans in accordance with local laws and to the extent that such contributions are tax deductible. The assets of the U.S. qualified pension plan consist primarily of fixed income and equity securities. In addition, Teradyne has unfunded qualified foreign plans as well as an unfunded supplemental executive defined benefit plan in the United States to provide retirement benefits in excess of levels allowed by the Employment Retirement Income Security Act (ERISA) and the Internal Revenue Code (IRC).

In the three months ended April 1, 2018, Teradyne contributed \$0.6 million to the U.S. supplemental executive defined benefit pension plan and \$0.2 million to certain qualified pension plans for non-U.S. subsidiaries.

For the three months ended April 1, 2018 and April 2, 2017, Teradyne's net periodic pension cost was comprised of the following:

| | For the Three Months Ended | | | |
|--|-----------------------------------|----------------|----------------------|----------------|
| | April 1, 2018 | | April 2, 2017 | |
| | United States | Foreign | United States | Foreign |
| | (in thousands) | | | |
| Service cost | \$ 571 | \$ 213 | \$ 560 | \$ 185 |
| Interest cost | 2,997 | 186 | 3,312 | 163 |
| Expected return on plan assets | (3,369) | (5) | (3,000) | (6) |
| Amortization of prior service cost | 14 | | 18 | |
| Total net periodic pension cost | \$ 213 | \$ 394 | \$ 890 | \$ 342 |

Postretirement Benefit Plan

In addition to receiving pension benefits, Teradyne employees in the United States who meet early retirement eligibility requirements as of their termination dates may participate in Teradyne's Welfare Plan, which includes medical and dental benefits up to age 65. Death benefits provide a fixed sum to retirees' survivors and are available to all retirees. Substantially all of Teradyne's current U.S. employees could become eligible for these benefits, and the existing benefit obligation relates primarily to those employees.

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For the three months ended April 1, 2018 and April 2, 2017, Teradyne's net periodic postretirement benefit cost (income) was comprised of the following:

| | For the Three Months Ended | |
|--|---|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Service cost | \$ 9 | \$ 10 |
| Interest cost | 50 | 50 |
| Amortization of prior service credit | (93) | (124) |
| Special termination benefits | 1,626 | |
| Total net periodic postretirement benefit cost (income) | \$ 1,592 | \$ (64) |

Q. COMMITMENTS AND CONTINGENCIES***Purchase Commitments***

As of April 1, 2018, Teradyne had entered into purchase commitments for certain components and materials. The purchase commitments covered by the agreements aggregate to approximately \$285.8 million, of which \$275.7 million is for less than one year.

Legal Claims

Teradyne is subject to various legal proceedings and claims which have arisen in the ordinary course of business. In the opinion of management, the ultimate disposition of these matters will not have a material adverse effect on Teradyne's results of operations, financial condition or cash flows.

R. INCOME TAXES

The effective tax rate for the three months ended April 1, 2018 and April 2, 2017 was 9.2% and 7.4%, respectively.

The increase in the effective tax rate from the three months ended April 2, 2017 to the three months ended April 1, 2018 primarily resulted from a projected shift in the geographic distribution of income which increased income subject to taxation in the U.S. relative to lower tax rate jurisdictions and a reduction in discrete tax benefits recognized. These increases were partially offset by the benefit of the reduction in the U.S. corporate tax rate from 35% to 21% and the U.S. foreign derived intangible income deduction.

The effective tax rates for the three months ended April 1, 2018 and April 2, 2017 differed from the expected federal statutory rate primarily because of the favorable effect of statutory rates applicable to income earned outside the United States.

The tax rate for the three months ended April 1, 2018 and April 2, 2017 was also reduced by the benefit from U.S. research and development tax credits, partially offset by additions to the uncertain tax positions for transfer pricing,

both of which are included in the projected annual effective tax rate.

Discrete tax benefits recorded in the three months ended April 1, 2018 amounted to \$8.3 million composed of \$7.6 million from stock based compensation and \$0.7 million of other discrete tax benefits. Discrete tax expense amounted to \$2.3 million composed of \$1.7 million from the remeasurement of deferred tax assets as a result of reductions in tax rates and \$0.6 million of other discrete tax expenses. The \$7.6 million of discrete benefit from stock based compensation included \$7.4 million of excess tax benefits recognized pursuant to ASU No. 2016-09 Improvements to Employee Share-Based Payment Accounting.

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Discrete tax benefits recorded in the three months ended April 2, 2017 amounted to \$7.0 million of which \$5.5 million resulted from stock based compensation, \$0.7 million related to U.S. research and development tax credits and \$0.8 million from other discrete tax benefits. The \$5.5 million of discrete benefit from stock based compensation included \$5.2 million of excess tax benefits recognized pursuant to ASU No. 2016-09 Improvements to Employee Share-Based Payment Accounting.

On a quarterly basis, Teradyne evaluates the realizability of the deferred tax assets by jurisdiction and assesses the need for a valuation allowance. As of April 1, 2018, Teradyne believes that it will ultimately realize the deferred tax assets recorded on the condensed consolidated balance sheet. However, should Teradyne believe that it is more-likely-than-not that the deferred tax assets would not be realized, the tax provision would increase in the period in which Teradyne determined that the realizability was not likely. Teradyne considers the probability of future taxable income and historical profitability, among other factors, in assessing the realizability of the deferred tax assets.

As of April 1, 2018 and December 31, 2017, Teradyne had \$37.3 million and \$36.3 million, respectively, of reserves for uncertain tax positions. The \$1.0 million net increase in reserves for uncertain tax positions is primarily composed of additions related to transfer pricing exposures and U.S. research and development tax credits.

Teradyne is currently under examination by the Internal Revenue Service. The timing of resolution and closure of the tax audit is highly unpredictable. Given the uncertainty, it is reasonably possible that the balance of unrecognized tax benefits could significantly change within the next twelve months. However, an estimate of the range of reasonably possible adjustments cannot presently be made.

Teradyne recognizes interest and penalties related to income tax matters in income tax expense. As of April 1, 2018 and December 31, 2017, \$0.3 million and \$0.3 million, respectively, of interest and penalties were accrued for uncertain tax positions. For the three months ended April 1, 2018, an expense of \$0.03 million was recorded for interest and penalties related to income tax items. For the three months ended April 2, 2017, a benefit of \$0.1 million was recorded for interest and penalties related to income tax items.

Teradyne qualifies for a tax holiday in Singapore by fulfilling the requirements of an agreement with the Singapore Economic Development Board under which certain headcount and spending requirements must be met. The tax savings due to the tax holiday for the three months ended April 1, 2018 was \$3.0 million, or \$0.01 per diluted share. The tax savings due to the tax holiday for the three months ended April 2, 2017 was \$4.7 million, or \$0.02 per diluted share. The tax holiday is scheduled to expire on December 31, 2020.

In the fourth quarter of 2017, Teradyne recorded a provisional amount of \$186.0 million of additional income tax expense which represents Teradyne's best estimate of the impact of the Tax Cuts and Jobs Act of 2017 (the Tax Reform Act) in accordance with Teradyne's understanding of the Tax Reform Act and guidance available at that time. The \$186.0 million is composed of expense of \$161.0 million related to the one-time transition tax on the mandatory deemed repatriation of foreign earnings, \$33.6 million of expense related to the remeasurement of certain deferred tax assets and liabilities based on the rates at which they are expected to reverse in the future, a benefit of \$10.3 million associated with the impact of correlative adjustments on uncertain tax positions, and \$1.7 million of expense related to the remeasurement of certain uncertain tax positions resulting from the reduction in the federal tax rate. Although the provisional estimates are based on the best available interpretations of the Tax Reform Act, the final impacts may differ from the estimates due to, among other things, the issuance of additional regulatory and legislative guidance related to the Tax Reform Act. As of April 1, 2018, there has been no material change to the provisional amount recorded. Any adjustment to the provisional amounts will be recorded in 2018 when the analysis is complete.

S. SEGMENT INFORMATION

Teradyne has four operating segments (Semiconductor Test, System Test, Industrial Automation and Wireless Test), which are its reportable segments. The Semiconductor Test segment includes operations related

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to the design, manufacturing and marketing of semiconductor test products and services. The System Test segment includes operations related to the design, manufacturing and marketing of products and services for defense/aerospace instrumentation test, storage test and circuit-board test. The Industrial Automation segment includes operations related to the design, manufacturing and marketing of collaborative robotic arms and advanced robotic control software. The Wireless Test segment includes operations related to the design, manufacturing and marketing of wireless test products and services. Each operating segment has a segment manager who is directly accountable to and maintains regular contact with Teradyne's chief operating decision maker (Teradyne's chief executive officer) to discuss operating activities, financial results, forecasts, and plans for the segment.

Teradyne evaluates performance based on several factors, of which the primary financial measure is business segment income (loss) before income taxes. The accounting policies of the business segments in effect are described in Note B: Accounting Policies in Teradyne's Annual Report on Form 10-K for the year ended December 31, 2017, and Note B: Accounting Policies in this filing for any changes in the three months ended April 1, 2018.

Segment information for the three months ended April 1, 2018 and April 2, 2017 is as follows:

| | Semiconductor Test | System Test | Industrial Automation | Wireless Test | Corporate and Other | Consolidated |
|--|--------------------|-------------|-----------------------|---------------|---------------------|--------------|
| | (in thousands) | | | | | |
| Three Months Ended April 1, 2018 | | | | | | |
| Revenues | \$ 373,328 | \$ 43,019 | \$ 48,834 | \$ 22,507 | \$ (221) | \$ 487,467 |
| Income before income taxes (1)(2) | 88,079 | 5,888 | 784 | 464 | 605 | 95,820 |
| Total assets (3) | 758,737 | 90,785 | 406,557 | 59,739 | 1,679,375 | 2,995,193 |
| Three Months Ended April 2, 2017 | | | | | | |
| Revenues | \$ 355,528 | \$ 39,845 | \$ 36,272 | \$ 25,268 | \$ | \$ 456,913 |
| Income (loss) before income taxes (1)(2) | 97,966 | (2,759) | (2,571) | 1,532 | (2,152) | 92,016 |
| Total assets (3) | 740,334 | 106,754 | 331,016 | 61,356 | 1,602,820 | 2,842,280 |

- (1) Included in Corporate and Other are: contingent consideration adjustments, severance charges, interest income, interest expense, net foreign exchange gains (losses), and acquisitions related charges.
- (2) Included in the income (loss) before income taxes for each of the segments are charges and credits related to restructuring and other and inventory charges.
- (3) Total business assets are directly attributable to each business. Corporate assets consist of cash and cash equivalents, marketable securities and certain other assets.

Included in the Semiconductor Test segment are charges and credits in the following line items in the statements of operations:

**For the Three Months
Ended**
**April 1,
2018** **April 2,
2017**

| | (in thousands) | |
|--|-----------------------|----------|
| Restructuring and other employee severance | \$ 3,761 | \$ (265) |
| Cost of revenues inventory charge | 2,166 | 1,319 |

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Included in the System Test segment are charges in the following line item in the statements of operations:

| | For the Three Months Ended | |
|-----------------------------------|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Cost of revenues inventory charge | \$ 320 | \$ 885 |

Included in the Industrial Automation segment are charges in the following line item in the statements of operations:

| | For the Three Months Ended | |
|--|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Cost of revenues inventory charge | \$ 200 | \$ |
| Restructuring and other employee severance | 120 | 624 |

Included in the Wireless Test segment are charges in the following line items in the statements of operations:

| | For the Three Months Ended | |
|--|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Cost of revenues inventory charge | \$ 836 | \$ 522 |
| Restructuring and other employee severance | | 1,313 |

Included in Corporate and Other are charges and credits in the following line items in the statements of operations:

| | For the Three Months Ended | |
|--|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| | (in thousands) | |
| Restructuring and other Universal Robots contingent consideration adjustment | \$ (4,968) | \$ 634 |
| Restructuring and other acquisition related expense | 774 | |
| Restructuring and other employee severance | | 205 |

T. SHAREHOLDERS EQUITY***Stock Repurchase Program***

In January 2018, Teradyne's Board of Directors cancelled the December 2016 stock repurchase program and authorized a new stock repurchase program for up to \$1.5 billion of common stock. Teradyne intends to repurchase \$750 million in 2018. During the three months ended April 1, 2018, Teradyne repurchased 2.9 million shares of common stock for \$134.3 million at an average price of \$45.69 per share.

In December 2016, the Board of Directors approved a \$500 million share repurchase authorization which commenced on January 1, 2017. During the three months ended April 2, 2017, Teradyne repurchased 1.3 million shares of common stock for \$37.7 million at an average price of \$29.38 per share.

The total price includes commissions and is recorded as a reduction to retained earnings.

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Dividend

Holders of Teradyne's common stock are entitled to receive dividends when they are declared by Teradyne's Board of Directors.

In January 2018, Teradyne's Board of Directors declared a quarterly cash dividend of \$0.09 per share. Dividend payments for the three months ended April 1, 2018 were \$17.6 million.

In January 2017, Teradyne's Board of Directors declared a quarterly cash dividend of \$0.07 per share. Dividend payments for the three months ended April 2, 2017 were \$14.0 million.

While Teradyne declared a quarterly cash dividend and authorized a share repurchase program, it may reduce or eliminate the cash dividend or share repurchase program in the future. Future cash dividends and stock repurchases are subject to the discretion of Teradyne's Board of Directors which will consider, among other things, Teradyne's earnings, capital requirements and financial condition.

U. SUBSEQUENT EVENTS

On April 25, 2018, Teradyne acquired all the issued and outstanding shares of Mobile Industrial Robots ApS (MiR), a Danish limited liability company located in Odense, Denmark, for an aggregate purchase price of approximately \$148 million net of cash acquired, and up to an additional approximately \$124 million payable upon the achievement of certain revenue and profit performance targets through 2020. The fair value of assets and liabilities acquired has not been disclosed because Teradyne has not completed the valuation. MiR is the leading maker of collaborative autonomous mobile robots for industrial applications. MiR will be part of Teradyne's Industrial Automation segment.

Table of Contents**Item 2: Management's Discussion and Analysis of Financial Condition and Results of Operations**

Statements in this Quarterly Report on Form 10-Q which are not historical facts, so called forward-looking statements, are made pursuant to the safe harbor provisions of Section 21E of the Securities Exchange Act of 1934, as amended. Investors are cautioned that all forward-looking statements involve risks and uncertainties, including those detailed in our filings with the Securities and Exchange Commission. See also Part II, Item 1A of this Quarterly Report on Form 10-Q and Part I, Item 1A Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2017. Readers are cautioned not to place undue reliance on these forward-looking statements which reflect management's analysis only as of the date hereof. We assume no obligation to update these forward-looking statements to reflect actual results or changes in factors or assumptions affecting forward-looking statements, except as may be required by law.

Overview

We are a leading global supplier of automation equipment for test and industrial applications. We design, develop, manufacture and sell automatic test systems used to test semiconductors, wireless products, data storage and complex electronics systems in the consumer electronics, wireless, automotive, industrial, computing, communications, and aerospace and defense industries. Our industrial automation products include collaborative robotic arms, and advanced robotic control software used by global manufacturing and light industrial customers to improve quality, increase manufacturing and material handling efficiency and decrease manufacturing costs. Our automatic test equipment and industrial automation products and services include:

semiconductor test (Semiconductor Test) systems;

defense/aerospace (Defense/Aerospace) test instrumentation and systems, storage test (Storage Test) systems, and circuit-board test and inspection (Production Board Test) systems (collectively these products represent System Test);

industrial automation (Industrial Automation) products; and

wireless test (Wireless Test) systems.

We have a customer base which includes integrated device manufacturers (IDMs), outsourced semiconductor assembly and test providers (OSATs), original equipment manufacturers (OEMs), wafer foundries, fabless companies that design, but contract with others for the manufacture of integrated circuits (ICs), developers of wireless devices and consumer electronics, manufacturers of circuit boards, automotive suppliers, wireless product manufacturers, storage device manufacturers, aerospace and military contractors, and distributors that sell collaborative robots.

The market for our test products is concentrated with a limited number of significant customers accounting for a substantial portion of the purchases of test equipment. One customer drives significant demand for our products both through direct sales and sales to the customer's supply partners. We expect that sales of our test products will continue to be concentrated with a limited number of significant customers for the foreseeable future.

The sales of our products and services are dependent, to a large degree, on customers who are subject to cyclical trends in the demand for their products. These cyclical periods have had, and will continue to have, a significant effect

on our business because our customers often delay or accelerate purchases in reaction to changes in their businesses and to demand fluctuations in the semiconductor and electronics industries. Historically, these demand fluctuations have resulted in significant variations in our results of operations. During the first quarter of 2018, demand outlook for mobile device test capacity in 2018 declined sharply for our Semiconductor Test business. As a result, we reduced our revenue outlook for 2018 to reflect the demand decline.

In 2015, we acquired Universal Robots A/S (Universal Robots), the leading supplier of collaborative robots which are low-cost, easy-to-deploy and simple-to-program robots that work side by side with production

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workers to improve quality, increase manufacturing efficiency and decrease manufacturing costs. The acquisition of Universal Robots provides a growth engine to our business and complements our existing System Test and Wireless Test segments. The total purchase price for Universal Robots was approximately \$315 million, which included cash paid of approximately \$284 million and \$32 million in fair value of contingent consideration payable upon achievement of revenue and earnings targets through 2018. The contingent consideration related to revenue for the period from July 1, 2015 to December 31, 2017 in the amount of \$24.6 million was paid in March 2018. The remaining maximum contingent consideration that could be paid in 2019 is \$25 million.

On February 26, 2018, we acquired Energid Technologies Corporation (Energid) for a total preliminary purchase price of approximately \$27.6 million. Energid 's technology enables and simplifies the programming of complex robotic motions used in a wide variety of end markets, ranging from heavy industry to healthcare; utilizing both traditional robots and collaborative robots.

On April 25, 2018, we acquired Mobile Industrial Robots ApS (MiR), a Danish limited liability company, for an aggregate purchase price of approximately \$148 million net of cash acquired, and up to an additional approximately \$124 million payable upon the achievement of certain revenue and profit performance targets through 2020. MiR is the leading maker of collaborative autonomous mobile robots for industrial applications. MiR and Energid will be included in our Industrial Automation segment.

We believe our recent acquisitions have enhanced our opportunities for growth. We intend to continue to invest in our business, grow market share in our markets and expand further our addressable markets while tightly managing our costs.

Critical Accounting Policies and Estimates

We have identified the policies which are critical to understanding our business and our results of operations. There have been no significant changes during the three months ended April 1, 2018 to the items disclosed as our critical accounting policies and estimates in Management 's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, except as noted below.

Preparation of Financial Statements and Use of Estimates

The preparation of consolidated financial statements requires management to make estimates and judgments that affect the amounts reported in the financial statements. Actual results may differ significantly from these estimates.

Revenue from Contracts with Customers

We adopted Accounting Standards Update (ASU) 2014-09, *Revenue from Contracts with Customers* (ASC 606) on January 1, 2018 using the modified retrospective method for all contracts not completed as of the date of adoption. The reported results for 2018 reflect the application of ASC 606 while the reported results for 2017 were prepared under the guidance of ASC 605, *Revenue Recognition* (ASC 605), which is also referred to herein as Legacy GAAP or the previous guidance. We recorded a net increase to retained earnings of \$12.7 million as of January 1, 2018 due to the cumulative impact of adopting ASC 606. Refer to Note B: Accounting Policies in our 2017 annual report on Form 10-K for the policies in effect for revenue prior to January 1, 2018. The adoption of ASC 606 represents a change in accounting principle that will more closely align revenue recognition with the delivery of our hardware and services and will provide financial statement readers with enhanced disclosures. In accordance with ASC 606, revenue is recognized when or as a customer obtains control of promised goods or services. The amount of revenue recognized reflects the consideration to which we expect to be entitled to receive in exchange for fulfillment

of the performance obligation. Our primary source of revenue will continue to be from the sale of systems, instruments, robots, and the delivery of services.

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In accordance with ASC 606, we recognize revenues, when or as control is transferred to a customer. Our determination of revenue is dependent upon a five step process outlined below.

Step 1: Identify the contract with the customer

We account for a contract with a customer when there is written approval, the contract is committed, the rights of the parties, including payment terms, are identified, the contract has commercial substance and consideration is probable of collection.

Step 2: Identify the performance obligations in the contract

We periodically enter into contracts with its customers in which a customer may purchase a combination of goods and or services, such as products with extended warranty obligations. We determine performance obligations by assessing whether the products or services are distinct from the other elements of the contract. In order to be distinct the product or service must perform either on its own or with readily available resources and must be separate within the context of the contract.

Step 3: Determine the transaction price

We considers the amount stated on the face of the purchase order to be the transaction price. We do not have variable consideration which could impact the stated purchase price agreed to by us and the customer.

Step 4: Allocate the transaction price to the performance obligations in the contract

Transaction price is allocated to each individual performance obligation based on the standalone selling price of that performance obligation. We use standalone transactions when available to value each performance obligation. If standalone transactions are not available, we will estimate the standalone selling price through market assessments or cost plus a reasonable margin analysis. Any discounts from standalone selling price are spread over each performance obligation.

Step 5: Recognize revenue when (or as) the entity satisfies a performance obligation

In order to determine the appropriate timing for revenue recognition, we first determine if the transaction meets any of three criteria for over time recognition. If the transaction meets the criteria for over time recognition, we recognize revenue as the good or service is delivered. We use input variables such as hours or months utilized or costs incurred to determine the amount of revenue to recognize in a given period. Input variables are used as they best align consumption with benefit to the customer. For transactions which do not meet the criteria for over time recognition, we will recognize revenue at a point in time based on an assessment of the five criteria for transfer of control. We have concluded that revenue should be recognized when shipped or delivered based on contractual terms. Typically acceptance of our products and services is a formality as we deliver similar systems, instruments and robots to standard specifications. In cases where acceptance is not deemed a formality, we will wait for customer acceptance before recognizing revenue.

Retirement Benefits

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*. We retrospectively adopted the new accounting guidance on presentation of net periodic pension costs and net periodic postretirement benefit

costs in the first quarter of 2018. This guidance requires the service cost component of net benefit costs to be reported in the same line item in the consolidated statement of operations as other employee compensation costs. The non-service components of net benefit costs such as interest cost,

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expected return on assets, amortization of prior service cost, and actuarial gains or losses, are required to be reported separately outside of income or loss from operations. Following the adoption of this guidance, we continue to record the service cost component in the same line item as other employee compensation costs and the non-service components of net benefit costs such as interest cost, expected return on assets, amortization of prior service cost, and actuarial gains or losses are reported within other (income) expense, net. The retrospective adoption of this standard increased the first quarter of 2017 income from operations by \$0.4 million due to the removal of the non-service component of pension expense and decreased other (income) expense, net by the same amount with zero impact to net income.

Financial Assets and Financial Liabilities

In January 2016, the FASB issued ASU 2016-01, *Financial Instruments Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities*. We adopted the new accounting guidance in the first quarter of 2018 using the modified retrospective approach. This guidance requires that changes in fair value of equity securities be accounted for directly in earnings. Previously, the changes in fair value were recorded in accumulated other comprehensive income on the balance sheet. We continue to record realized gains in interest income and realized losses in interest expense. The adoption of this new accounting guidance increased the January 1, 2018 retained earnings balance by \$3.1 million and decreased the accumulated other comprehensive income balance by the same amount.

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**SELECTED RELATIONSHIPS WITHIN THE CONDENSED CONSOLIDATED
STATEMENTS OF OPERATIONS**

| | For the Three Months Ended | |
|---|---------------------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| Percentage of revenues: | | |
| Revenues: | | |
| Products | 83% | 82% |
| Services | 17 | 18 |
| Total revenues | 100 | 100 |
| Cost of revenues: | | |
| Cost of products | 37 | 34 |
| Cost of services | 8 | 8 |
| Total cost of revenues (exclusive of acquired intangible assets amortization shown separately below) | 45 | 42 |
| Gross profit | 55 | 58 |
| Operating expenses: | | |
| Selling and administrative | 19 | 19 |
| Engineering and development | 15 | 17 |
| Acquired intangible assets amortization | 2 | 2 |
| Restructuring and other | | 1 |
| Total operating expenses | 35 | 37 |
| Income from operations | 20 | 21 |
| Non-operating (income) expense: | | |
| Interest income | (1) | (1) |
| Interest expense | 1 | 1 |
| Other (income) expense, net | | |
| Income before income taxes | 20 | 20 |
| Income tax provision | 2 | 1 |
| Net income | 18% | 19% |

Results of Operations*First Quarter 2018 Compared to First Quarter 2017**Revenues*

Revenues by our four reportable segments were as follows:

| | For the Three Months Ended | | |
|-----------------------|---------------------------------------|--------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar Change |
| | (in millions) | | |
| Semiconductor Test | \$ 373.3 | \$ 355.5 | \$ 17.8 |
| Industrial Automation | 48.8 | 36.3 | 12.5 |
| System Test | 43.0 | 39.8 | 3.2 |
| Wireless Test | 22.5 | 25.3 | (2.8) |
| | \$ 487.5 | \$ 456.9 | \$ 30.6 |

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The increase in Semiconductor Test revenues of \$17.8 million, or 5.0%, was driven primarily by increased sales in the flash memory test segment, partially offset by a decrease in image sensor and microcontroller sales. The increase in Industrial Automation revenues of \$12.5 million, or 34.4%, was due to higher demand for collaborative robotic arms. The increase in System Test revenues of \$3.2 million, or 8.0%, was primarily due to higher sales in Storage Test of system level testers. The decrease in Wireless Test revenues of \$2.8 million, or 11.1%, was primarily due to lower demand for connectivity and cellular test systems.

Revenues by country as a percentage of total revenues were as follows (1):

| | For the Three Months Ended | |
|---------------|---|--------------------------|
| | April 1, 2018 | April 2, 2017 |
| Taiwan | 28% | 25% |
| China | 17 | 12 |
| United States | 13 | 12 |
| Korea | 11 | 7 |
| Europe | 10 | 8 |
| Philippines | 6 | 6 |
| Japan | 5 | 12 |
| Malaysia | 4 | 9 |
| Singapore | 3 | 5 |
| Thailand | 2 | 2 |
| Rest of World | 1 | 2 |
| | 100% | 100% |

(1) Revenues attributable to a country are based on location of customer site.

Gross Profit

Our gross profit was as follows:

| | For the Three Months Ended | | |
|---------------------------|---|--------------------------|--------------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar/Point Change |
| | | (in millions) | |
| Gross profit | \$ 269.8 | \$ 265.0 | \$ 4.8 |
| Percent of Total Revenues | 55.4% | 58.0% | (2.6) |

Gross profit as a percent of revenue decreased by 2.6 points, as a result of a decrease related to product mix primarily in Semiconductor Test, partially offset by an increase due to higher sales primarily in Semiconductor Test and Industrial Automation.

We assess the carrying value of our inventory on a quarterly basis by estimating future demand and comparing that demand against on-hand and on-order inventory positions. Forecasted revenue information is obtained from sales and marketing groups and incorporates factors such as backlog and future revenue demand. This quarterly process identifies obsolete and excess inventory. Obsolete inventory, which represents items for which there is no demand, is fully reserved. Excess inventory, which represents inventory items that are not expected to be consumed during the next twelve quarters for our Semiconductor Test, System Test and Industrial Automation segments and the next four quarters for our Wireless Test segment, is written-down to estimated net realizable value.

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During the three months ended April 1, 2018, we recorded an inventory provision of \$3.5 million included in cost of revenues primarily due to downward revisions to previously forecasted demand levels. Of the \$3.5 million of total excess and obsolete provisions, \$2.2 million was related to Semiconductor Test, \$0.8 million was related to Wireless Test, \$0.3 million was related to System Test, and \$0.2 million was related to Industrial Automation.

During the three months ended April 2, 2017, we recorded an inventory provision of \$2.7 million included in cost of revenues primarily due to downward revisions to previously forecasted demand levels. Of the \$2.7 million of total excess and obsolete provisions, \$1.3 million was related to Semiconductor Test, \$0.9 million was related to System Test, and \$0.5 million was related to Wireless Test.

During the three months ended April 1, 2018 and April 2, 2017, we scrapped \$0.3 million and \$1.8 million of inventory, respectively. During the three months ended April 1, 2018 and April 2, 2017, we sold \$2.2 million and \$1.1 million of previously written-down or written-off inventory, respectively. As of April 1, 2018, we had inventory related reserves for inventory which had been written-down or written-off totaling \$103.4 million. We have no pre-determined timeline to scrap the remaining inventory.

Selling and Administrative

Selling and administrative expenses were as follows:

| | For the Three Months Ended | | |
|----------------------------|---------------------------------------|--------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar Change |
| | (in millions) | | |
| Selling and administrative | \$ 90.5 | \$ 84.8 | \$ 5.7 |
| Percent of Total Revenues | 18.6% | 18.6% | |

The increase of \$5.7 million in selling and administrative expenses was due primarily to higher spending in Industrial Automation.

Engineering and Development

Engineering and development expenses were as follows:

| | For the Three Months Ended | | |
|-----------------------------|---------------------------------------|--------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar Change |
| | (in millions) | | |
| Engineering and development | \$ 74.4 | \$ 76.0 | \$ (1.6) |
| Percent of Total Revenues | 15.3% | 16.6% | |

The decrease of \$1.6 million in engineering and development expenses was primarily due to lower spending in Storage Test and Semiconductor Test, partially offset by higher spending in Industrial Automation.

Acquired Intangible Assets Amortization

Acquired intangible assets amortization expense was as follows:

| | For the Three Months Ended | | |
|---|---------------------------------------|--------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar Change |
| | (in millions) | | |
| Acquired intangible assets amortization | \$ 7.7 | \$ 8.0 | \$ (0.3) |
| Percent of Total Revenues | 1.6% | 1.7% | |

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Acquired intangible assets amortization expense decreased primarily in the Industrial Automation segment due to intangible assets that became fully amortized in June 2017, partially offset by increased amortization expense due to the Energid acquisition.

Restructuring and Other

During the three months ended April 1, 2018, we recorded a \$5.0 million credit for the decrease in the fair value of the Universal Robots contingent consideration liability, partially offset by \$3.9 million recorded for employee severance charges, primarily in Semiconductor Test, and \$0.8 million of acquisition related expenses.

During the three months ended April 2, 2017, we recorded \$2.5 million of restructuring and other charges of which \$1.3 million was for a lease impairment of a Wireless Test facility in Sunnyvale, CA, which was terminated in September 2017, \$0.6 million was for employee severance charges and \$0.6 million for the increase in the fair value of the Universal Robots contingent consideration liability.

Interest and Other

| | For the Three Months Ended | | |
|-----------------------------|-----------------------------------|--------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar Change |
| | (in millions) | | |
| Interest income | \$ (6.0) | \$ (3.5) | \$ (2.5) |
| Interest expense | 6.9 | 5.4 | 1.5 |
| Other (income) expense, net | 0.8 | (0.1) | 0.9 |

Interest income increased by \$2.5 million due primarily to higher cash and marketable securities balances during the quarter and higher interest rates in 2018. Interest expense increased by \$1.5 million due primarily to realized losses on sales of marketable securities. Other (income) expense, net included net foreign exchange losses and non-service components of net periodic pension costs and net periodic postretirement benefit costs.

Income Before Income Taxes

| | For the Three Months Ended | | |
|-------------------------|-----------------------------------|--------------------------|--------------------------|
| | April 1, 2018 | April 2, 2017 | Dollar Change |
| | (in millions) | | |
| Semiconductor Test | \$ 88.1 | \$ 98.0 | \$ (9.9) |
| System Test | 5.9 | (2.8) | 8.7 |
| Industrial Automation | 0.8 | (2.6) | 3.4 |
| Wireless Test | 0.5 | 1.5 | (1.0) |
| Corporate and Other (1) | 0.6 | (2.2) | 2.8 |
| | \$ 95.8 | \$ 92.0 | \$ 3.8 |

(1) Included in Corporate and Other are: contingent consideration adjustments, employee severance, interest income, interest expense, net foreign exchange gains and losses and acquisition related expenses.

The decrease in income before income taxes in Semiconductor Test was driven primarily by lower gross margin due to product mix. The increase in income before income taxes in System Test was primarily due to higher sales in Storage Test of system level testers. The increase in income before income taxes in Industrial Automation was due to higher demand for collaborative robotic arms. The decrease in income before income taxes in Wireless Test was primarily due to lower demand for connectivity and cellular test systems.

Table of Contents*Income Taxes*

The effective tax rate for the three months ended April 1, 2018 and April 2, 2017 was 9.2% and 7.4%, respectively.

The increase in the effective tax rate from the three months ended April 2, 2017 to the three months ended April 1, 2018 primarily resulted from a projected shift in the geographic distribution of income which increased income subject to taxation in the U.S. relative to lower tax rate jurisdictions and a reduction in discrete tax benefits recognized. These increases were partially offset by the benefit of the reduction in the U.S. corporate tax rate from 35% to 21% and the U.S. foreign derived intangible income deduction.

Contractual Obligations

The following table reflects our contractual obligations as of April 1, 2018:

| | Total | Payments Due by Period | | | | Other |
|--|---------------------|------------------------|-----------------------------|------------------|-------------------------|------------------|
| | | Less than 1 year | 1-3 years (in thousands) | 3-5 years | More than 5 years | |
| Convertible debt | \$ 460,000 | \$ | \$ | \$ | \$ 460,000 | \$ |
| Purchase obligations | 285,804 | 275,723 | 10,081 | | | |
| Retirement plans contributions | 128,698 | 5,524 | 8,745 | 8,962 | 105,467 | |
| Operating lease obligations | 65,883 | 17,276 | 27,215 | 15,021 | 6,371 | |
| Interest on long-term debt | 34,500 | 5,750 | 11,500 | 11,500 | 5,750 | |
| Fair value of contingent consideration | 15,581 | 15,581 | | | | |
| Transition tax payable (1) | 160,896 | 715 | 25,641 | 25,641 | 108,899 | |
| Other long-term liabilities reflected on the balance sheet under GAAP (2) | 44,594 | | 21,726 | | | 22,868 |
| Total | \$ 1,195,956 | \$ 320,569 | \$ 104,908 | \$ 61,124 | \$ 686,487 | \$ 22,868 |

- (1) Represents our estimate of a provisional tax amount for the transition tax liability associated with our accumulated foreign earnings as a result of the enactment of the Tax Reform Act on December 22, 2017.
- (2) Included in other long-term liabilities are liabilities for customer advances, extended warranty, uncertain tax positions, deferred tax liabilities and other obligations. For certain long-term obligations, we are unable to provide a reasonably reliable estimate of the timing of future payments relating to these obligations and therefore we included these amounts in the column marked Other.

Liquidity and Capital Resources

Our cash, cash equivalents and marketable securities balances decreased by \$316.1 million in the three months ended April 1, 2018 to \$1,588 million.

Operating activities during the three months ended April 1, 2018 used cash of \$81.9 million. Changes in operating assets and liabilities used cash of \$212.6 million. This was due to a \$162.4 million increase in operating assets and a

\$50.2 million decrease in operating liabilities.

The increase in operating assets was primarily due to a \$140.7 million increase in accounts receivable due to an increase in shipments during the last month of the quarter and the impact of the new revenue recognition standard, a \$21.0 million increase in inventories, and a \$0.7 million increase in prepayments and other assets.

The decrease in operating liabilities was due to a \$56.3 million decrease in accrued employee compensation due primarily to first quarter payments related to variable compensation, a \$12.1 million decrease in income taxes, a \$7.5 million decrease in other accrued liabilities, and \$1.0 million of retirement plan contributions, partially offset by a \$17.1 million increase in accounts payable and a \$9.6 million increase in deferred revenue and customer advance payments.

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Investing activities during the three months ended April 1, 2018 provided cash of \$462.9 million, due to \$800.7 million and \$212.7 million in proceeds from sales and maturities of marketable securities, respectively, partially offset by \$490.3 million used for purchases of marketable securities, \$34.8 million used for purchases of property, plant and equipment and \$25.4 million used for the acquisition of Energid.

Financing activities during the three months ended April 1, 2018 used cash of \$174.4 million, due to \$134.3 million used for the repurchase of 2.9 million shares of common stock at an average price of \$45.69 per share, \$19.6 million used for payment related to net settlement of employee stock compensation awards, \$17.6 million used for dividend payments, and \$13.6 million used for a payment related to Universal Robots acquisition contingent consideration, partially offset by \$10.7 million from the issuance of common stock under employee stock purchase and stock option plans.

Operating activities during the three months ended April 2, 2017 used cash of \$61.1 million. Changes in operating assets and liabilities used cash of \$182.4 million. This was due to a \$184.9 million increase in operating assets and a \$2.5 million increase in operating liabilities.

The increase in operating assets was primarily due to a \$123.8 million increase in accounts receivable due to the delivery profile of first quarter shipments and a \$62.2 million increase in inventories to support increased shipments in the second quarter.

The decrease in operating liabilities was due to a \$31.0 million decrease in accrued employee compensation due primarily to first quarter payments related to variable compensation, a \$3.3 million decrease in deferred revenue and customer advance payments, a \$0.9 million decrease in other accrued liabilities and \$0.9 million of retirement plan contributions, partially offset by a \$24.3 million increase in accounts payable and a \$14.3 million increase in income taxes.

Investing activities during the three months ended April 2, 2017 provided cash of \$126.4 million, due to \$213.6 million and \$88.2 million in proceeds from sales and maturities of marketable securities, respectively, partially offset by \$153.3 used for purchases of marketable securities and \$22.1 million used for purchases of property, plant and equipment.

Financing activities during the three months ended April 2, 2017 used cash of \$50.0 million, due to \$37.7 million used for the repurchase of 1.3 million shares of common stock at an average price of \$29.38 per share, \$14.0 million used for dividend payments, \$12.3 million used for payment related to net settlement of employee stock compensation awards and \$1.1 million used for a payment related to AIT contingent consideration, partially offset by \$15.1 million from the issuance of common stock under employee stock purchase and stock option plans.

In January 2018, our Board of Directors declared a quarterly cash dividend of \$0.09 per share that was paid on March 23, 2018 to shareholders of record as of February 23, 2018. Dividend payments for the three months ended April 1, 2018 were \$17.6 million.

In January 2017, our Board of Directors declared a quarterly cash dividend of \$0.07 per share that was paid on March 20, 2017 to shareholders of record as of February 24, 2017. Dividend payments for the three months ended April 2, 2017 were \$14.0 million.

In January 2018, our Board of Directors cancelled the December 2016 stock repurchase program and authorized a new stock repurchase program for up to \$1.5 billion of common stock. We intend to repurchase \$750 million in 2018. During the three months ended April 1, 2018, we repurchased 2.9 million shares of common stock for \$134.3 million

at an average price of \$45.69 per share.

In December 2016, our Board of Directors approved a \$500 million share repurchase authorization which commenced on January 1, 2017. During the three months ended April 2, 2017, we repurchased 1.3 million shares of common stock for \$37.7 million at an average price of \$29.38 per share.

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While we declared a quarterly cash dividend and authorized a share repurchase program, we may reduce or eliminate the cash dividend or share repurchase program in the future. Future cash dividends and stock repurchases are subject to the discretion of our Board of Directors which will consider, among other things, our earnings, capital requirements and financial condition.

We believe our cash, cash equivalents and marketable securities balance will be sufficient to pay our quarterly dividend, execute our authorized share repurchase program and meet our working capital and expenditure needs for at least the next twelve months. Inflation has not had a significant long-term impact on earnings.

Equity Compensation Plans

As discussed in Note O: Stock Based Compensation in our 2017 Annual Report on Form 10-K, we have a 1996 Employee Stock Purchase Plan and a 2006 Equity and Cash Compensation Incentive Plan (the 2006 Equity Plan).

The purpose of the 1996 Employee Stock Purchase Plan is to encourage stock ownership by all eligible employees of Teradyne. The purpose of the 2006 Equity Plan is to provide equity ownership and compensation opportunities in Teradyne to our employees, officers, directors, consultants and/or advisors. Both plans were approved by our shareholders.

Recently Issued Accounting Pronouncements

On January 26, 2017, the FASB issued ASU 2017-04, *Intangibles – Goodwill and Other (Topic 350): Simplifying the Accounting for Goodwill Impairment*. The new guidance removes Step 2 of the goodwill impairment test, which requires a hypothetical purchase price allocation. Goodwill impairment will now be the amount by which a reporting unit's carrying value exceeds its fair value, not to exceed the carrying amount of goodwill. All other goodwill impairment guidance will remain largely unchanged. Entities will continue to have the option to perform a qualitative assessment to determine if a quantitative impairment test is necessary. The same one-step impairment test will be applied to goodwill at all reporting units, even those with zero or negative carrying amounts. Entities will be required to disclose the amount of goodwill at reporting units with zero or negative carrying amounts. The revised guidance will be applied prospectively, and is effective in 2020. Early adoption is permitted for any impairment tests performed after January 1, 2017. We are currently evaluating the impact of this ASU on our financial position, results of operations and statements of cash flows.

In February 2016, the FASB issued ASU 2016-02, *Leases (Topic 842)*. The guidance in this ASU supersedes the lease recognition requirements in Accounting Standards Codification (ASC) Topic 840, *Leases*. The new standard establishes a right-of-use (ROU) model that requires a lessee to record an ROU asset and a lease liability on the balance sheet for all leases with terms longer than twelve months. Leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the statements of operations. The new standard is effective for annual periods beginning after December 15, 2018 with early adoption permitted. A modified retrospective transition approach is required for lessees for capital and operating leases existing at, or entered into after, the beginning of the earliest comparative period presented in the financial statements. We are currently evaluating the impact of this ASU on our financial position and results of operations.

Item 3: Quantitative and Qualitative Disclosures about Market Risks

For Quantitative and Qualitative Disclosures about Market Risk affecting Teradyne, see Part 2 Item 7a, Quantitative and Qualitative Disclosures about Market Risks, in our Annual Report on Form 10-K filed with the SEC on March 1,

2018. There were no material changes in our exposure to market risk from those set forth in our Annual Report for the fiscal year ended December 31, 2017.

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In addition to market risks described in our Annual Report on Form 10-K, we have an equity price risk related to the fair value of our convertible senior unsecured notes issued in December 2016. In December 2016, Teradyne issued \$460 million aggregate principal amount of 1.25% convertible senior unsecured notes (the Notes) due December 15, 2023. As of April 1, 2018, the Notes had a fair value of \$700.6 million. The table below provides a sensitivity analysis of hypothetical 10% changes of Teradyne's stock price as of the end of the first quarter of 2018 and the estimated impact on the fair value of the Notes. The selected scenarios are not predictions of future events, but rather are intended to illustrate the effect such event may have on the fair value of the Notes. The fair value of the Notes is subject to equity price risk due to the convertible feature. The fair value of the Notes will generally increase as Teradyne's common stock price increases and will generally decrease as the common stock price declines in value. The change in stock price affects the fair value of the convertible senior notes, but does not impact Teradyne's financial position, cash flows or results of operations due to the fixed nature of the debt obligation. Additionally, we carry the Notes at face value less unamortized discount on our balance sheet, and we present the fair value for required disclosure purposes only. In connection with the offering of the Notes we also sold warrants to the option counterparties. These transactions have been accounted for as an adjustment to our shareholders' equity. The convertible note hedge transactions are expected to reduce the potential equity dilution upon conversion of the Notes. The warrants along with any shares issuable upon conversion of the Notes will have a dilutive effect on our earnings per share to the extent that the average market price of our common stock for a given reporting period exceeds the applicable strike price or conversion price of the warrants or Notes, respectively.

| Hypothetical Change in Teradyne Stock Price | Fair Value | Estimated change in fair value | Hypothetical percentage increase (decrease) in fair value |
|---|------------|--------------------------------|---|
| 10% Increase | \$ 758,281 | \$ 57,655 | 8.2% |
| No Change | 700,626 | | |
| 10% Decrease | 644,904 | (55,722) | (8.0) |

See Note G: Debt for further information.

Item 4: Controls and Procedures

As of the end of the period covered by this report, our management, with the participation of our Chief Executive Officer and Chief Financial Officer, evaluated the effectiveness of our disclosure controls and procedures pursuant to Rule 13a-15(b) or Rule 15d-15(f) promulgated under the Exchange Act. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that, as of the end of the period covered by this report, our disclosure controls and procedures were effective in ensuring that material information required to be disclosed in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, including ensuring that such material information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

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PART II. OTHER INFORMATION

Item 1: Legal Proceedings

We are subject to various legal proceedings and claims, which have arisen, in the ordinary course of business. In the opinion of management, the ultimate disposition of these matters will not have a material adverse effect on our results of operations, financial condition or cash flows.

Item 1A: Risk Factors

In addition to other information set forth in this Form 10-Q, you should carefully consider the factors discussed in Part I, Item 1A: Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2017, which could materially affect our business, financial condition or future results. The risk factors described in our Annual Report on Form 10-K remain applicable to our business.

The risks described in our Annual Report on Form 10-K are not the only risks that we face. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition and/or operating results.

Our business may suffer if we are impacted by the implementation of tariffs on our products.

Our business operations are international and may be disrupted by the implementation of tariffs on our products. In March 2018, the United States Trade Representative announced proposed tariffs on a list of products manufactured in China. While there is uncertainty as to whether the proposed tariffs will be implemented and, if they are implemented, as to the products that will be covered by the tariffs, the tariffs if implemented could have a material adverse effect on our business, financial condition or results of operations. In addition, tariffs implemented by China could disrupt our business operations or impact the sale of our products and, therefore, have a material adverse effect on our business, financial condition or results of operations.

Item 2: Unregistered Sales of Equity Securities and Use of Proceeds

In January 2018, our Board of Directors cancelled the December 2016 stock repurchase program and authorized a new stock repurchase program for up to \$1.5 billion of common stock. We intend to repurchase \$750 million in 2018. During the three months ended April 1, 2018, we repurchased 2.9 million shares of common stock for \$134.3 million at an average price of \$45.69 per share.

In December 2016, our Board of Directors approved a \$500 million share repurchase authorization which commenced on January 1, 2017. During the three months ended April 2, 2017, we repurchased 1.3 million shares of common stock for \$37.7 million at an average price of \$29.38 per share.

The following table includes information with respect to repurchases we made of our common stock during the three months ended April 1, 2018 (in thousands except per share price):

| Period | | (a) Total Number of Shares (or Units) Purchased | (b) Average Price Paid per Share (or Unit) | (d) | |
|-------------------|----------------------|---|--|---|--|
| | | | | (c) Total Number of Shares (or Units) Purchased as Part of Publicly Announced Plans or Programs | Maximum Number (or Approximate Dollar Value) of Shares (or Units) that may Yet Be Purchased Under the Plans or Programs |
| January 1, 2018 | January 28, 2018 | 83 | \$ 46.77 | | \$ 1,500,000 |
| January 29, 2018 | February 25, 2018 | 1,654 | \$ 44.28 | 1,317 | \$ 1,442,449 |
| February 26, 2018 | April 1, 2018 | 1,622 | \$ 47.31 | 1,622 | \$ 1,365,724 |
| | | 3,359 | (1) \$ 45.80 | (1) | 2,939 |

(1) Includes 0.4 million shares at an average price of \$46.59 withheld from employees for the payment of taxes.

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We satisfy U.S. federal and state minimum withholding tax obligations due upon the vesting and the conversion of restricted stock units into shares of our common stock, by automatically withholding from the shares being issued, a number of shares with an aggregate fair market value on the date of such vesting and conversion that would satisfy the minimum withholding amount due.

Item 4: Mine Safety Disclosures

Not Applicable

Item 6: Exhibits**Exhibit****Number****Description**

| | |
|---------|--|
| 2.1 | <u>Share Sale and Purchase Agreement by and among Teradyne Robotics Holdings Denmark ApS, Teradyne, Inc., and the shareholders of Mobile Industrial Robots ApS, dated April 25, 2018 (filed herewith)</u> |
| 10.1 | <u>Amendment No.2 to Credit Agreement, dated as of March 21, 2018, among Teradyne, Inc., Barclays Bank PLC, as the administrative agent and collateral agent, and the lenders party thereto (filed herewith)</u> |
| 31.1 | <u>Certification of Principal Executive Officer, pursuant to Rule 13a-14(a) of Securities and Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)</u> |
| 31.2 | <u>Certification of Principal Financial Officer, pursuant to Rule 13a-14(a) of Securities and Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)</u> |
| 32.1 | <u>Certification of Principal Executive Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)</u> |
| 32.2 | <u>Certification of Principal Financial Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)</u> |
| 101.INS | XBRL Instance Document |
| 101.SCH | XBRL Taxonomy Extension Schema Document |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document |
| 101.LAB | XBRL Taxonomy Extension Label Linkbase Document |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document |

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SIGNATURES

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

TERADYNE, INC.
Registrant

/s/ GREGORY R. BEECHER
Gregory R. Beecher

Vice President,

Chief Financial Officer and Treasurer

(Duly Authorized Officer

and Principal Financial Officer)

May 11, 2018