

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 March 31, 2020

or

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

For the transition period from _____ to _____

Commission File Number 000-09992

KLA CORPORATION

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

04-2564110

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

One Technology Drive, Milpitas, California

(Address of Principal Executive Offices)

95035

(Zip Code)

(408) 875-3000

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Common Stock, \$0.001 par value per share	KLAC	The Nasdaq Stock Market, LLC The Nasdaq Global Select Market

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted 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 such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a 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.

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

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

As of April 20, 2020, there were 155,048,894 shares of the registrant's Common Stock, \$0.001 par value, outstanding.

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PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

KLA CORPORATION
Condensed Consolidated Balance Sheets
(Unaudited)

(In thousands)	March 31, 2020	June 30, 2019
ASSETS		
Current assets:		
Cash and cash equivalents	\$ 946,175	\$ 1,015,994
Marketable securities	688,356	723,391
Accounts receivable, net	1,119,263	990,113
Inventories	1,264,130	1,262,500
Other current assets	300,541	323,077
Total current assets	4,318,465	4,315,075
Land, property and equipment, net	497,743	448,799
Goodwill	2,043,129	2,211,858
Deferred income taxes	207,958	206,141
Purchased intangible assets, net	1,437,844	1,560,670
Other non-current assets	340,807	265,973
Total assets	<u>\$ 8,845,946</u>	<u>\$ 9,008,516</u>
LIABILITIES, NON-CONTROLLING INTEREST AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 243,234	\$ 202,416
Deferred system revenue	336,383	282,348
Deferred service revenue	214,238	206,669
Current portion of long-term debt	—	249,999
Other current liabilities	859,419	827,054
Total current liabilities	1,653,274	1,768,486
Non-current liabilities:		
Long-term debt	3,443,937	3,173,383
Deferred tax liabilities	647,220	702,285
Deferred service revenue	100,375	98,772
Other non-current liabilities	675,944	587,897
Total liabilities	6,520,750	6,330,823
Commitments and contingencies (Note 14 and Note 15)		
Stockholders' equity:		
Common stock and capital in excess of par value	2,019,071	2,017,312
Retained earnings	376,656	714,825
Accumulated other comprehensive income (loss)	(88,294)	(73,029)
Total KLA stockholders' equity	2,307,433	2,659,108
Non-controlling interest in consolidated subsidiaries	17,763	18,585
Total stockholders' equity	2,325,196	2,677,693
Total liabilities and stockholders' equity	<u>\$ 8,845,946</u>	<u>\$ 9,008,516</u>

See accompanying notes to Condensed Consolidated Financial Statements (unaudited).

KLA CORPORATION
Condensed Consolidated Statements of Operations
(Unaudited)

(In thousands, except per share amounts)	Three Months Ended		Nine Months Ended	
	March 31,		March 31,	
	2020	2019	2020	2019
Revenues:				
Product	\$ 1,051,096	\$ 793,224	\$ 3,253,621	\$ 2,474,652
Service	372,868	304,087	1,093,210	835,817
Total revenues	1,423,964	1,097,311	4,346,831	3,310,469
Costs and expenses:				
Costs of revenues	590,158	486,945	1,828,017	1,276,592
Research and development	215,433	184,887	646,764	504,320
Selling, general and administrative	185,760	182,184	566,358	409,084
Goodwill impairment	256,649	—	256,649	—
Interest expense	39,231	31,187	120,053	84,087
Loss on extinguishment of debt	22,538	—	22,538	—
Other expense (income), net	(1,004)	(9,282)	(5,190)	(28,535)
Income before income taxes	115,199	221,390	911,642	1,064,921
Provision for income taxes	37,190	28,745	106,932	107,232
Net income	78,009	192,645	804,710	957,689
Less: Net loss attributable to non-controlling interest	(443)	(83)	(822)	(83)
Net income attributable to KLA	\$ 78,452	\$ 192,728	\$ 805,532	\$ 957,772
Net income per share attributable to KLA				
Basic	\$ 0.50	\$ 1.23	\$ 5.12	\$ 6.20
Diluted	\$ 0.50	\$ 1.23	\$ 5.08	\$ 6.17
Weighted-average number of shares:				
Basic	156,067	156,349	157,356	154,561
Diluted	157,172	157,182	158,586	155,310

See accompanying notes to Condensed Consolidated Financial Statements (unaudited).

KLA CORPORATION
Condensed Consolidated Statements of Comprehensive Income
(Unaudited)

(In thousands)	Three Months Ended		Nine Months Ended	
	March 31,		March 31,	
	2020	2019	2020	2019
Net income	\$ 78,009	\$ 192,645	\$ 804,710	\$ 957,689
Other comprehensive income (loss):				
Currency translation adjustments:				
Cumulative currency translation adjustments	(3,769)	(1,031)	(3,363)	(5,104)
Income tax (provision) benefit	114	442	260	442
Net change related to currency translation adjustments	(3,655)	(589)	(3,103)	(4,662)
Cash flow hedges:				
Net unrealized gains (losses) arising during the period	(19,333)	(1,379)	(17,785)	(6,567)
Reclassification adjustments for net (gains) losses included in net income	(2,904)	(946)	(1,252)	(3,719)
Income tax (provision) benefit	4,816	461	4,380	1,641
Net change related to cash flow hedges	(17,421)	(1,864)	(14,657)	(8,645)
Net change related to unrecognized losses and transition obligations in connection with defined benefit plans	425	438	1,103	993
Available-for-sale securities:				
Net unrealized gains (losses) arising during the period	(695)	3,922	1,104	8,681
Reclassification adjustments for net (gains) losses included in net income	(432)	313	(346)	1,263
Income tax (provision) benefit	242	(680)	634	(1,759)
Net change related to available-for-sale securities	(885)	3,555	1,392	8,185
Other comprehensive income (loss)	(21,536)	1,540	(15,265)	(4,129)
Less: Comprehensive loss attributable to non-controlling interest	(443)	(83)	(822)	(83)
Total comprehensive income attributable to KLA	\$ 56,916	\$ 194,268	\$ 790,267	\$ 953,643

See accompanying notes to Condensed Consolidated Financial Statements (unaudited).

KLA CORPORATION
Condensed Consolidated Statements of Stockholders' Equity
(Unaudited)

(In thousands, except per share amounts)	Common Stock and Capital in Excess of Par Value		Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total KLA Stockholders' Equity	Non- Controlling Interest	Total Stockholders' Equity
	Shares	Amount					
Balance as of June 30, 2019	159,475	\$ 2,017,312	\$ 714,825	\$ (73,029)	\$ 2,659,108	\$ 18,585	\$ 2,677,693
Net income attributable to KLA	—	—	346,525	—	346,525	—	346,525
Other comprehensive income	—	—	—	1,174	1,174	—	1,174
Net loss attributable to non-controlling interest	—	—	—	—	—	(129)	(129)
Net issuance under employee stock plans	281	(23,423)	—	—	(23,423)	—	(23,423)
Repurchase of common stock	(1,659)	(20,988)	(207,508)	—	(228,496)	—	(228,496)
Cash dividends (\$0.75 per share) and dividend equivalents declared	—	—	(120,669)	—	(120,669)	—	(120,669)
Stock-based compensation expense	—	26,944	—	—	26,944	—	26,944
Balance as of September 30, 2019	158,097	1,999,845	733,173	(71,855)	2,661,163	18,456	2,679,619
Net income attributable to KLA	—	—	380,555	—	380,555	—	380,555
Other comprehensive income	—	—	—	5,097	5,097	—	5,097
Net loss attributable to non-controlling interest	—	—	—	—	—	(250)	(250)
Net issuance under employee stock plans	442	12,262	—	—	12,262	—	12,262
Repurchase of common stock	(1,690)	(21,375)	(259,218)	—	(280,593)	—	(280,593)
Cash dividends (\$0.85 per share) and dividend equivalents declared	—	—	(135,509)	—	(135,509)	—	(135,509)
Stock-based compensation expense	—	26,789	—	—	26,789	—	26,789
Balance as of December 31, 2019	156,849	2,017,521	719,001	(66,758)	2,669,764	18,206	2,687,970
Net income attributable to KLA	—	—	78,452	—	78,452	—	78,452
Other comprehensive income	—	—	—	(21,536)	(21,536)	—	(21,536)
Net loss attributable to non-controlling interest	—	—	—	—	—	(443)	(443)
Net issuance under employee stock plans	177	(4,284)	—	—	(4,284)	—	(4,284)
Repurchase of common stock	(1,977)	(25,436)	(286,559)	—	(311,995)	—	(311,995)
Cash dividends (\$0.85 per share) and dividend equivalents declared	—	—	(134,238)	—	(134,238)	—	(134,238)
Stock-based compensation expense	—	31,270	—	—	31,270	—	31,270
Balance as of March 31, 2020	155,049	\$ 2,019,071	\$ 376,656	\$ (88,294)	\$ 2,307,433	\$ 17,763	\$ 2,325,196

See accompanying notes to Condensed Consolidated Financial Statements (unaudited).

(In thousands, except per share amounts)	Common Stock and Capital in Excess of Par Value		Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Total KLA Stockholders' Equity	Non- Controlling Interest	Total Stockholders' Equity
	Shares	Amount					
Balance as of June 30, 2018	156,048	\$ 617,999	\$ 1,056,445	\$ (53,933)	\$ 1,620,511	\$ —	\$ 1,620,511
Adoption of ASC 606	—	—	(21,215)	75	(21,140)	—	(21,140)
Reclassification of stranded tax effects	—	—	10,920	(10,920)	—	—	—
Balance as of July 1, 2018	156,048	617,999	1,046,150	(64,778)	1,599,371	—	1,599,371
Net income attributable to KLA	—	—	395,944	—	395,944	—	395,944
Other comprehensive income	—	—	—	8,611	8,611	—	8,611
Net issuance under employee stock plans	332	(26,961)	—	—	(26,961)	—	(26,961)
Repurchase of common stock	(2,781)	(11,010)	(296,777)	—	(307,787)	—	(307,787)
Cash dividends (\$0.75 per share) and dividend equivalents declared	—	—	(117,947)	—	(117,947)	—	(117,947)
Stock-based compensation expense	—	16,138	—	—	16,138	—	16,138
Balance as of September 30, 2018	153,599	596,166	1,027,370	(56,167)	1,567,369	—	1,567,369
Net income attributable to KLA	—	—	369,100	—	369,100	—	369,100
Other comprehensive loss	—	—	—	(14,280)	(14,280)	—	(14,280)
Net issuance under employee stock plans	321	17,323	—	—	17,323	—	17,323
Repurchase of common stock	(2,556)	(9,919)	(232,482)	—	(242,401)	—	(242,401)
Cash dividends (\$0.75 per share) and dividend equivalents declared	—	—	(115,184)	—	(115,184)	—	(115,184)
Stock-based compensation expense	—	15,695	—	—	15,695	—	15,695
Balance as of December 31, 2018	151,364	619,265	1,048,804	(70,447)	1,597,622	—	1,597,622
Net income attributable to KLA	—	—	192,728	—	192,728	—	192,728
Net loss attributable to non-controlling interest	—	—	—	—	—	(83)	(83)
Other comprehensive income	—	—	—	1,540	1,540	—	1,540
Assumption of stock-based compensation plan awards in connection with the acquisition of Orbotech	—	13,281	—	—	13,281	—	13,281
Common stock issued upon the acquisition of Orbotech	12,292	1,330,786	—	—	1,330,786	—	1,330,786
Net issuance under employee stock plans	26	(371)	—	—	(371)	—	(371)
Repurchase of common stock	(1,770)	(7,240)	(198,777)	—	(206,017)	—	(206,017)
Cash dividends (\$0.75 per share) and dividend equivalents declared	—	—	(114,669)	—	(114,669)	—	(114,669)
Non-controlling interest in connection with the acquisition of Orbotech	—	—	—	—	—	36,578	36,578
Stock-based compensation expense	—	34,193	—	—	34,193	—	34,193
Balance as of March 31, 2019	161,912	\$ 1,989,914	\$ 928,086	\$ (68,907)	\$ 2,849,093	\$ 36,495	\$ 2,885,588

See accompanying notes to Condensed Consolidated Financial Statements (unaudited).

KLA CORPORATION
Condensed Consolidated Statements of Cash Flows
(Unaudited)

(In thousands)	Nine Months Ended March 31,	
	2020	2019
Cash flows from operating activities:		
Net income	\$ 804,710	\$ 957,689
Adjustments to reconcile net income to net cash provided by operating activities:		
Goodwill impairment	256,649	—
Depreciation and amortization	269,112	105,338
Loss on extinguishment of debt	22,538	—
Loss on unrealized foreign exchange and other	1,394	4,863
Stock-based compensation expense	85,003	66,026
Changes in assets and liabilities, net of assets acquired and liabilities assumed in business acquisitions:		
Accounts receivable	(128,793)	(92,586)
Inventories	(18,208)	(72,740)
Other assets	(29,271)	15,057
Accounts payable	41,239	(17,795)
Deferred system revenue	54,035	(67,428)
Deferred service revenue	7,574	(16,485)
Other liabilities	(18,460)	(54,768)
Settlement of treasury lock agreement	(21,518)	—
Net cash provided by operating activities	1,326,004	827,171
Cash flows from investing activities:		
Acquisition of non-marketable securities	—	(630)
Business acquisitions, net of cash acquired	(78,600)	(1,818,283)
Capital expenditures	(110,885)	(74,652)
Proceeds from disposition of non-marketable securities	1,086	—
Purchases of available-for-sale securities	(564,655)	(2,686)
Proceeds from sale of available-for-sale securities	104,770	239,528
Proceeds from maturity of available-for-sale securities	491,269	443,107
Purchases of trading securities	(68,657)	(62,428)
Proceeds from sale of trading securities	72,619	64,623
Net cash used in investing activities	(153,053)	(1,211,421)
Cash flows from financing activities:		
Proceeds from issuance of debt, net of issuance costs	742,004	1,186,263
Proceeds from revolving credit facility	250,000	900,000
Repayment of debt	(996,033)	(902,474)
Common stock repurchases	(829,084)	(750,216)
Payment of dividends to stockholders	(389,659)	(350,900)
Issuance of common stock	25,285	20,556
Tax withholding payments related to vested and released restricted stock units	(40,733)	(30,575)
Payment of contingent consideration payable	(60)	(513)
Net cash (provided by) used in financing activities	(1,238,280)	72,141
Effect of exchange rate changes on cash and cash equivalents	(4,490)	(110)
Net (decrease) increase in cash and cash equivalents	(69,819)	(312,219)
Cash and cash equivalents at beginning of period	1,015,994	1,404,382
Cash and cash equivalents at end of period	\$ 946,175	\$ 1,092,163
Supplemental cash flow disclosures:		
Income taxes paid	\$ 162,718	\$ 164,701
Interest paid	\$ 114,662	\$ 55,529
Non-cash activities:		
Issuance of common stock for the acquisition of Orbotech - financing activities	\$ —	\$ 1,330,786
Contingent consideration payable - financing activities	\$ 6,128	\$ 6,740
Dividends payable - financing activities	\$ 4,578	\$ 6,494
Unsettled common stock repurchase - financing activities	\$ —	\$ 5,988
Accrued debt issuance costs - financing activities	\$ 193	\$ 2,530

See accompanying notes to Condensed Consolidated Financial Statements (unaudited).

KLA CORPORATION
Notes to Condensed Consolidated Financial Statements
(Unaudited)

NOTE 1 – BASIS OF PRESENTATION

Basis of Presentation. For purposes of this report, “KLA,” the “Company,” “we,” “our,” “us,” or similar references mean KLA Corporation, and its majority-owned subsidiaries unless the context requires otherwise. The Condensed Consolidated Financial Statements have been prepared by us pursuant to the rules and regulations of the U.S. Securities and Exchange Commission (“SEC”). Certain information and footnote disclosures normally included in financial statements prepared in accordance with accounting principles generally accepted in the United States of America have been condensed or omitted pursuant to such rules and regulations.

In the opinion of management, the unaudited interim financial statements reflect all adjustments (consisting only of normal, recurring adjustments) necessary for a fair statement of the financial position, results of operations, comprehensive income, stockholders’ equity and cash flows for the periods indicated. These financial statements and notes, however, should be read in conjunction with Item 8, “Financial Statements and Supplementary Data” included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019, filed with the SEC on August 16, 2019.

The Condensed Consolidated Financial Statements include the accounts of KLA and its majority-owned subsidiaries. All significant intercompany balances and transactions have been eliminated.

The results of operations for the three and nine months ended March 31, 2020 are not necessarily indicative of the results that may be expected for any other interim period or for the full fiscal year ending June 30, 2020.

Certain reclassifications have been made to the prior year’s Condensed Consolidated Financial Statements to conform to the current year presentation. The reclassifications did not have material effects on the prior year’s Condensed Consolidated Balance Sheets, Statements of Operations, Comprehensive Income and Cash Flows.

Acquisition of Orbotech, Ltd. On February 20, 2019 (the “Closing Date” or “Acquisition Date”), we completed the acquisition of Orbotech, Ltd. (“Orbotech”) for total consideration of \$3.26 billion. The acquisition of Orbotech is referred to as the “Orbotech Acquisition”. The Orbotech Acquisition was accounted for by applying the acquisition method of accounting for business combinations. The unaudited Condensed Consolidated Financial Statements in this report include the financial results of Orbotech prospectively from the Acquisition Date. For additional details, refer to Note 6 “Business Combinations” of the Notes to the Condensed Consolidated Financial Statements.

Management Estimates. The preparation of the Condensed Consolidated Financial Statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions in applying our accounting policies that affect the reported amounts of assets and liabilities (and related disclosure of contingent assets and liabilities) at the date of the Condensed Consolidated Financial Statements and the reported amounts of revenues and expenses during the reporting periods. Actual results could differ from those estimates.

Comparability. Effective July 1, 2019, we adopted ASC 842, Leases (“ASC 842”). Prior periods were not retrospectively restated, and accordingly, the Consolidated Balance Sheet as of June 30, 2019, and the Condensed Consolidated Statements of Operations for the three and nine months ended March 31, 2019 were prepared using accounting standards that were different than those in effect for the three and nine months ended March 31, 2020.

Significant Accounting Policies. We updated our accounting policies for Leases effective July 1, 2019. There have been no other material changes to our significant accounting policies in Note 1 “Description of Business and Summary of Significant Accounting Policies” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

Leases. Under ASC 842, a contract is or contains a lease when we have the right to control the use of an identified asset for a period of time. We determine if an arrangement is a lease at inception of the contract, which is the date on which the terms of the contract are agreed to, and the agreement creates enforceable rights and obligations. The commencement date of the lease is the date that the lessor makes an underlying asset available for our use. On the commencement date leases are evaluated for classification and assets and liabilities are recognized based on the present value of lease payments over the lease term.

The lease term used to calculate the lease liability includes options to extend or terminate the lease when it is reasonably certain that the option will be exercised. The right-of-use (“ROU”) asset is initially measured as the amount of lease liability, adjusted for any initial lease costs, prepaid lease payments and any lease incentives. Variable lease payments, consisting primarily of reimbursement of costs incurred by lessors for common area maintenance, real estate taxes, and insurance are not included in the lease liability and are recognized as they are incurred.

As most of our leases do not provide an implicit rate, we use our incremental borrowing rate at lease commencement to measure ROU assets and lease liabilities. The incremental borrowing rate used by us is based on baseline rates and adjusted by the credit spreads commensurate with our secured borrowing rate, over a similar term. We used the incremental borrowing rate on June 30, 2019 for all leases that commenced on or prior to that date. Operating lease expense is generally recognized on a straight-line basis over the lease term.

We have elected the practical expedient to account for the lease and non-lease components as a single lease component for the majority of our asset classes. For leases with a term of one year or less, we have elected not to record the ROU asset or liability.

Recent Accounting Pronouncements.

Recently Adopted

In February 2016, the Financial Accounting Standards Board (“FASB”) issued ASC 842 which supersedes the lease recognition requirements in ASC 840, Leases, (“ASC 840”). The most prominent of the changes in ASC 842 is the recognition of ROU assets and lease liabilities by lessees for those leases classified as operating leases.

Consistent with ASC 840, leases will be classified as either finance or operating, with classification affecting the pattern of expense recognition in the statements of operations. In July 2018, the FASB issued an accounting standard update which amended ASC 842 and offered an additional (and optional) transition method by which entities could elect not to recast the comparative periods presented in financial statements in the period of adoption.

KLA adopted the new standard on July 1, 2019, the first day of fiscal 2020, using the optional adoption method whereby we did not adjust comparative period financial statements. Consequently, prior period balances and disclosures have not been restated. KLA elected certain practical expedients, which among other things, allowed us to carry forward prior conclusions about lease identification and classification. The adoption of ASC 842 resulted in the balance sheet recognition of additional lease assets and lease liabilities of \$110.7 million and \$108.7 million, respectively, related primarily to facilities, vehicles and other equipment. The adoption of ASC 842 did not have a material impact on beginning retained earnings, the Condensed Consolidated Statement of Operations, Cash Flows, or earnings per share. Additionally, the adoption of ASC 842 did not have a material impact on the Condensed Consolidated Financial Statements for arrangements in which KLA is the lessor. For additional information regarding KLA’s leases, see Note 9 “Leases” in the Notes to the Condensed Consolidated Financial Statements.

Updates Not Yet Effective

In June 2016, the FASB issued an accounting standard update that changes the accounting for recognizing impairments of financial assets. Under the update, credit losses for certain types of financial instruments will be estimated based on expected losses. The update also modifies the impairment models for available-for-sale debt securities and for purchased financial assets with credit deterioration since their origination. The update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2021, with early adoption permitted starting in the first quarter of fiscal year ending June 30, 2020. We are currently evaluating the impact of this accounting standard update on our Condensed Consolidated Financial Statements.

In August 2018, the FASB issued an accounting standard update which modifies the existing accounting standards for fair value measurement disclosure. This update eliminates the disclosure of the amount of and reasons for transfers between level 1 and level 2 of the fair value hierarchy, and the policy for timing of transfers between levels. This standard update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2021, and early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our Condensed Consolidated Financial Statements.

In August 2018, the FASB issued an accounting standard update to amend the disclosure requirements related to defined benefit pension and other post-retirement plans. Some of the changes include adding a disclosure requirement for significant gains and losses related to changes in the benefit obligation for the period and removing the amounts in accumulated other comprehensive income expected to be recognized as components of net periodic benefit cost over the next fiscal year. This standard update is effective for us for the fiscal year ending June 30, 2021, and early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our Condensed Consolidated Financial Statements.

In August 2018, the FASB issued an accounting standard update to align the requirements for capitalizing implementation costs incurred in a cloud computing arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software. The guidance clarifies which costs should be capitalized including the cost to acquire the license and the related implementation costs. This standard update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2021, with an option to be adopted either prospectively or retrospectively. Early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our Condensed Consolidated Financial Statements.

In December 2019, the FASB issued an accounting standard update to simplify the accounting for income taxes in ASC 740, Income Taxes, (“ASC 740”). This amendment removes certain exceptions and improves consistent application of accounting principles for certain areas in ASC 740. The update is effective for us beginning in the first quarter of our fiscal year ending June 30, 2022, and early adoption is permitted. We are currently evaluating the impact of this accounting standard update on our Condensed Consolidated Financial Statements.

NOTE 2 – REVENUE

Contract Balances

The following table represents the opening and closing balances of accounts receivables, contract assets and contract liabilities for the indicated periods.

<i>(In thousands, except for percentage)</i>	<i>As of</i> March 31, 2020	<i>As of</i> July 1, 2019	<i>\$ Change</i>	<i>% Change</i>
Accounts receivable, net	\$ 1,119,263	\$ 990,113	\$ 129,150	13 %
Contract assets	\$ 91,382	\$ 94,015	\$ (2,633)	(3)%
Contract liabilities	\$ 650,996	\$ 587,789	\$ 63,207	11 %

Our payment terms and conditions vary by contract type, although terms generally include a requirement of payment of 70% to 90% of total contract consideration within 30 to 60 days of shipment, with the remainder payable within 30 days of acceptance.

The change in contract assets during the nine months ended March 31, 2020 was mainly due to \$54.0 million of contract assets reclassified to net accounts receivable as our right to consideration for these contract assets became unconditional, partially offset by \$51.3 million of revenue recognized for which the payment is subject to conditions other than passage of time. Contract assets are included in Other current assets on our Condensed Consolidated Balance Sheet.

During the nine months ended March 31, 2020, we recognized revenue of \$431.8 million that was included in contract liabilities as of July 1, 2019. This was partially offset by the value of products and services billed to customers for which control of the products and service has not transferred to the customers. Contract liabilities are included in current and non-current liabilities on our Condensed Consolidated Balance Sheets.

Remaining Performance Obligations

As of March 31, 2020, we had \$2.30 billion of remaining performance obligations, which represents our obligation to deliver products and services, and consists primarily of sales orders where written customer requests have been received. We expect to recognize approximately 5% to 15% of these performance obligations as revenue beyond the next twelve months, subject to risk of delays, pushouts, and cancellation by the customer, usually with limited or no penalties.

Refer to Note 18 “Segment Reporting and Geographic Information” of the Notes to the Condensed Consolidated Financial Statements for information related to revenue by geographic region as well as significant product and service offerings.

NOTE 3 – FAIR VALUE MEASUREMENTS

Our financial assets and liabilities are measured and recorded at fair value, except for our debt and certain equity investments in privately-held companies. Equity investments without a readily available fair value are accounted for using the measurement alternative. The measurement alternative is calculated as cost minus impairment, if any, plus or minus changes resulting from observable price changes.

Our non-financial assets, such as goodwill, intangible assets, and land, property and equipment, are assessed for impairment when an event or circumstance indicates that an other-than-temporary decline in value may have occurred.

Fair Value of Financial Instruments. We have evaluated the estimated fair value of financial instruments using available market information and valuations as provided by third-party sources. The use of different market assumptions and/or estimation methodologies could have a significant effect on the estimated fair value amounts. The fair value of our cash equivalents, accounts receivable, accounts payable and other current assets and liabilities approximate their carrying amounts due to the relatively short maturity of these items.

Fair Value Hierarchy. The authoritative guidance for fair value measurements establishes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described below:

Level 1	Valuations based on quoted prices in active markets for identical assets or liabilities that the entity has the ability to access.
Level 2	Valuations based on quoted prices for similar assets or liabilities, quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable data for substantially the full term of the assets or liabilities.
Level 3	Valuations based on inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

A financial instrument's level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement.

As of March 31, 2020, the types of instruments valued based on quoted market prices in active markets included money market funds, certain U.S. Treasury securities and U.S. Government agency securities. Such instruments are generally classified within Level 1 of the fair value hierarchy.

The types of instruments valued based on other observable inputs included corporate debt securities, sovereign securities, municipal securities, certain U.S. Treasury and U.S. Government agency securities. The market inputs used to value these instruments generally consist of market yields, reported trades and broker / dealer quotes. Such instruments are generally classified within Level 2 of the fair value hierarchy.

The principal market in which we execute our foreign currency contracts is the institutional market in an over-the-counter environment with a relatively high level of price transparency. The market participants generally are large financial institutions. Our foreign currency contracts' valuation inputs are based on quoted prices and quoted pricing intervals from public data sources and do not involve management judgment. These contracts are typically classified within Level 2 of the fair value hierarchy.

The fair value of deferred payments and contingent consideration payable, the majority of which were recorded in connection with business combinations, were classified as Level 3 and estimated using significant inputs that were not observable in the market. See Note 6 "Business Combinations" of the Notes to the Condensed Consolidated Financial Statements for additional information.

Financial assets (excluding cash held in operating accounts and time deposits) and liabilities measured at fair value on a recurring basis, as of the date indicated below, were presented on our Condensed Consolidated Balance Sheets as follows:

As of March 31, 2020 (In thousands)	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Little or No Market Activity Inputs (Level 3)
Assets				
Cash equivalents:				
Corporate debt securities	\$ 1,714	\$ —	\$ 1,714	\$ —
Money market funds and other	415,952	415,952	—	—
U.S. Treasury securities	—	—	—	—
Marketable securities:				
Corporate debt securities	385,161	—	385,161	—
Municipal securities	19,683	—	19,683	—
Sovereign securities	6,048	—	6,048	—
U.S. Government agency securities	78,680	78,680	—	—
U.S. Treasury securities	196,975	179,980	16,995	—
Total cash equivalents and marketable securities ⁽¹⁾	<u>1,104,213</u>	<u>674,612</u>	<u>429,601</u>	<u>—</u>
Other current assets:				
Derivative assets	10,558	—	10,558	—
Other non-current assets:				
Executive Deferred Savings Plan	187,937	148,741	39,196	—
Total financial assets⁽¹⁾	<u>\$ 1,302,708</u>	<u>\$ 823,353</u>	<u>\$ 479,355</u>	<u>\$ —</u>
Liabilities				
Derivative liabilities	\$ (906)	\$ —	\$ (906)	\$ —
Deferred payments	(6,600)	—	—	(6,600)
Contingent consideration payable	(16,144)	—	—	(16,144)
Total financial liabilities	<u>\$ (23,650)</u>	<u>\$ —</u>	<u>\$ (906)</u>	<u>\$ (22,744)</u>

(1) Excludes cash of \$444.5 million held in operating accounts and time deposits of \$85.8 million as of March 31, 2020.

Financial assets (excluding cash held in operating accounts and time deposits) and liabilities measured at fair value on a recurring basis, as of the date indicated below, were presented on our Condensed Consolidated Balance Sheets as follows:

<u>As of June 30, 2019 (In thousands)</u>	<u>Total</u>	<u>Quoted Prices in Active Markets for Identical Assets (Level 1)</u>	<u>Significant Other Observable Inputs (Level 2)</u>	<u>Little or No Market Activity Inputs (Level 3)</u>
Assets				
Cash equivalents:				
Corporate debt securities	\$ 10,988	\$ —	\$ 10,988	\$ —
Money market funds and other	352,708	352,708	—	—
U.S. Government agency securities	27,994	—	27,994	—
U.S. Treasury securities	55,858	—	55,858	—
Marketable securities:				
Corporate debt securities	422,089	—	422,089	—
Municipal securities	1,913	—	1,913	—
Sovereign securities	5,994	—	5,994	—
U.S. Government agency securities	131,224	131,224	—	—
U.S. Treasury securities	151,838	151,838	—	—
Total cash equivalents and marketable securities ⁽¹⁾	1,160,606	635,770	524,836	—
Other current assets:				
Derivative assets	2,557	—	2,557	—
Other non-current assets:				
Executive Deferred Savings Plan	207,581	158,021	49,560	—
Total financial assets⁽¹⁾	\$ 1,370,744	\$ 793,791	\$ 576,953	\$ —
Liabilities				
Derivative liabilities	\$ (3,334)	\$ —	\$ (3,334)	\$ —
Deferred payments	(8,800)	—	—	(8,800)
Contingent consideration payable	(14,005)	—	—	(14,005)
Total financial liabilities	\$ (26,139)	\$ —	\$ (3,334)	\$ (22,805)

(1) Excludes cash of \$479.8 million held in operating accounts and time deposits of \$99.0 million as of June 30, 2019.

There were no transfers between Level 1, Level 2 and Level 3 fair value measurements during the nine months ended March 31, 2020. See Note 8 "Debt" of the Notes to the Condensed Consolidated Financial Statements for disclosure of the fair value of our Senior Notes.

NOTE 4 – FINANCIAL STATEMENT COMPONENTS
Condensed Consolidated Balance Sheets

(In thousands)	As of March 31, 2020	As of June 30, 2019
Accounts receivable, net:		
Accounts receivable, gross	\$ 1,131,068	\$ 1,002,114
Allowance for doubtful accounts	(11,805)	(12,001)
	<u>\$ 1,119,263</u>	<u>\$ 990,113</u>
Inventories:		
Raw materials	\$ 449,251	\$ 444,627
Customer service parts	340,191	328,515
Work-in-process	324,423	285,191
Finished goods	150,265	204,167
	<u>\$ 1,264,130</u>	<u>\$ 1,262,500</u>
Other current assets:		
Contract assets	\$ 91,382	\$ 94,015
Prepaid expenses	71,975	88,387
Deferred costs of revenue	73,326	70,721
Prepaid income and other taxes	36,870	51,889
Other current assets	26,988	18,065
	<u>\$ 300,541</u>	<u>\$ 323,077</u>
Land, property and equipment, net:		
Land	\$ 67,859	\$ 67,883
Buildings and leasehold improvements	398,999	402,678
Machinery and equipment	659,048	669,316
Office furniture and fixtures	30,022	28,282
Construction-in-process	79,035	26,029
	1,234,963	1,194,188
Less: accumulated depreciation	(737,220)	(745,389)
	<u>\$ 497,743</u>	<u>\$ 448,799</u>
Other non-current assets:		
Executive Deferred Savings Plan ⁽¹⁾	\$ 187,936	\$ 207,581
Operating lease right of use assets	98,104	—
Other non-current assets	54,767	58,392
	<u>\$ 340,807</u>	<u>\$ 265,973</u>
Other current liabilities:		
Compensation and benefits	\$ 287,012	\$ 226,462
Executive Deferred Savings Plan	189,331	208,926
Customer credits and advances	124,109	133,677
Other accrued expenses	164,195	202,647
Income taxes payable	31,601	23,350
Interest payable	34,651	31,992
Operating lease liabilities	28,520	—
	<u>\$ 859,419</u>	<u>\$ 827,054</u>
Other non-current liabilities:		
Income taxes payable	\$ 383,356	\$ 392,266
Pension liabilities	80,628	79,622
Operating lease liabilities	67,524	—
Other non-current liabilities	144,436	116,009
	<u>\$ 675,944</u>	<u>\$ 587,897</u>

- (1) We have a non-qualified deferred compensation plan (known as “Executive Deferred Savings Plan” or “EDSP”) under which certain employees and non-employee directors may defer a portion of their compensation. The expense (benefit) associated with changes in the EDSP liability included in selling, general and administrative expense was \$(29.4) million and \$19.3 million during the three months ended March 31, 2020 and 2019, respectively and was \$(15.5) million and \$7.0 million during the nine months ended March 31, 2020 and 2019, respectively. The amount of net gains (losses) associated with changes in the EDSP assets included in selling, general and administrative expense was \$(29.4) million and \$19.7 million during the three months ended March 31, 2020 and 2019, respectively and was \$(15.3) million and \$7.7 million during the nine months ended March 31, 2020 and 2019, respectively. For additional details, refer to Note 1 “Description of Business and Summary of Significant Accounting Policies” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

Accumulated Other Comprehensive Income (Loss)

The components of accumulated other comprehensive income (loss) (“OCI”) as of the dates indicated below were as follows:

<u>(In thousands)</u>	Currency Translation Adjustments	Unrealized Gains (Losses) on Available- for-Sale Securities	Unrealized Gains (Losses) on Cash Flow Hedges	Unrealized Gains (Losses) on Defined Benefit Plans	Total
Balance as of March 31, 2020	\$ (47,144)	\$ (224)	\$ (23,382)	\$ (17,544)	\$ (88,294)
Balance as of June 30, 2019	\$ (44,041)	\$ (1,616)	\$ (8,725)	\$ (18,647)	\$ (73,029)

The effects on net income (loss) of amounts reclassified from accumulated OCI to the Condensed Consolidated Statement of Operations for the indicated period were as follows (in thousands):

Accumulated OCI Components	Location in the Condensed Consolidated Statements of Operations	Three Months Ended March 31,		Nine Months Ended March 31,	
		2020	2019	2020	2019
Unrealized gains (losses) on cash flow hedges from foreign exchange and interest rate contracts ⁽¹⁾	Revenues	\$ 3,051	\$ 655	\$ 3,416	\$ 3,343
	Costs of revenues and operating expenses	12	(17)	(1,806)	(309)
	Interest expense	(159)	150	(358)	527
	Other expense (income), net	—	158	—	158
	Net gains (losses) reclassified from accumulated OCI	\$ 2,904	\$ 946	\$ 1,252	\$ 3,719
Unrealized gains (losses) on available-for-sale securities	Other expense (income), net	\$ (432)	\$ (313)	\$ (346)	\$ (1,263)

- (1) Reflects the new accounting guidance for hedge accounting, which was adopted in the second quarter of fiscal year 2019. For additional details, refer to Note 16 “Derivative Instruments and Hedging Activities” of the Notes to the Condensed Consolidated Financial Statements.

The amounts reclassified out of accumulated OCI related to our defined benefit pension plans, which were recognized as a component of net periodic cost for the three months ended March 31, 2020 and 2019 were \$0.2 million and \$0.2 million, respectively and for the nine months ended March 31, 2020 and 2019 were \$0.7 million and \$0.6 million, respectively. For additional details, refer to Note 12 “Employee Benefit Plans” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

NOTE 5 – MARKETABLE SECURITIES

The amortized cost and fair value of marketable securities as of the dates indicated below were as follows:

As of March 31, 2020 (In thousands)	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Corporate debt securities	\$ 389,870	\$ 307	\$ (3,302)	\$ 386,875
Money market funds and other	415,952	—	—	415,952
Municipal securities	19,531	161	(9)	19,683
Sovereign securities	6,018	30	—	6,048
U.S. Government agency securities	78,416	272	(8)	78,680
U.S. Treasury securities	194,710	2,266	(1)	196,975
Subtotal	1,104,497	3,036	(3,320)	1,104,213
Add: Time deposits ⁽¹⁾	85,834	—	—	85,834
Less: Cash equivalents	501,692	—	(1)	501,691
Marketable securities	\$ 688,639	\$ 3,036	\$ (3,319)	\$ 688,356

As of June 30, 2019 (In thousands)	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Corporate debt securities	\$ 433,518	\$ 141	\$ (582)	\$ 433,077
Money market funds and other	352,708	—	—	352,708
Municipal securities	1,910	3	—	1,913
Sovereign securities	6,001	1	(8)	5,994
U.S. Government agency securities	159,454	5	(241)	159,218
U.S. Treasury securities	208,058	39	(401)	207,696
Subtotal	1,161,649	189	(1,232)	1,160,606
Add: Time deposits ⁽¹⁾	99,006	—	—	99,006
Less: Cash equivalents	536,206	17	(2)	536,221
Marketable securities	\$ 724,449	\$ 172	\$ (1,230)	\$ 723,391

(1) Time deposits excluded from fair value measurements.

Our investment portfolio consists of both corporate and government securities that have a maximum maturity of three years. The longer the duration of these securities, the more susceptible they are to changes in market interest rates and bond yields. As yields increase, those securities with a lower yield-at-cost show a mark-to-market unrealized loss. Most of our unrealized losses are due to changes in market interest rates and bond yields. We believe that we have the ability to realize the full value of all of these investments upon maturity. As of March 31, 2020, we had 182 investments in an unrealized loss position. The following table summarizes the fair value and gross unrealized losses of our investments that were in an unrealized loss position as of the date indicated below, none of which were in a continuous loss position for 12 months or more:

As of March 31, 2020 (In thousands)	Fair Value	Gross Unrealized Losses
Corporate debt securities	\$ 304,859	\$ (3,301)
Municipal securities	2,891	(9)
U.S. Government agency securities	10,669	(8)
U.S Treasury securities	2,010	(1)
Total	\$ 320,429	\$ (3,319)

The contractual maturities of securities classified as available-for-sale, regardless of their classification on our Condensed Consolidated Balance Sheets, as of the date indicated below were as follows:

<u>As of March 31, 2020 (In thousands)</u>	<u>Amortized Cost</u>	<u>Fair Value</u>
Due within one year	\$ 329,627	\$ 329,836
Due after one year through three years	359,012	358,520
	<u>\$ 688,639</u>	<u>\$ 688,356</u>

Actual maturities may differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties. Realized gains and losses on available-for-sale securities for the three and nine months ended March 31, 2020 and 2019 were immaterial.

NOTE 6 - BUSINESS COMBINATIONS

Fiscal 2020 Acquisition

On August 22, 2019, we acquired the outstanding shares of a privately-held company, primarily to expand our products and services offerings, for a total purchase consideration of \$93.9 million inclusive of a post-closing working capital adjustment payment made in the quarter ended March 31, 2020 as well as the fair value of the promise to pay an additional consideration up to \$60.0 million contingent on the achievement of certain milestones. As of March 31, 2020, the estimated fair value of the additional consideration was \$9.7 million, which was classified as a non-current liability on the Condensed Consolidated Balance Sheets.

We have included the financial results of the acquisition completed during the first quarter of the fiscal year 2020 in our Condensed Consolidated Financial Statements from the date of acquisition. These results were not material to our Condensed Consolidated Financial Statements.

The purchase price of the fiscal 2020 acquisition was allocated on a preliminary basis as follows:

<u>(In thousands)</u>	<u>Fair Value</u>
Net tangible assets (including cash and cash equivalents of \$6.6 million)	\$ 7,196
Deferred tax liabilities	(15,265)
Intangible assets	47,931
Goodwill	54,071
Total	<u>\$ 93,933</u>

The purchase price allocation is preliminary and as additional information becomes available, we may further revise the preliminary purchase price allocation during the remainder of the measurement period, which will not exceed 12 months from the closing of the acquisition.

The \$54.0 million of goodwill was assigned to the Wafer Inspection and Patterning reporting units. None of the goodwill recognized is deductible for income tax purposes.

Fiscal 2019 Acquisitions

Orbotech Acquisition

On February 20, 2019, we completed the acquisition of Orbotech for total purchase consideration of approximately \$3.26 billion. Orbotech is a global supplier of yield-enhancing and process-enabling solutions for the manufactures of electronics products. KLA acquired Orbotech to extend and enhance its portfolio of products to address market opportunities in the printed circuit board, flat panel display, advanced packaging and semiconductor manufacturing areas.

Purchase Price Allocation

The total purchase consideration was allocated as follows (in thousands):

Purchase Price	
Cash for outstanding Orbotech shares ⁽¹⁾	\$ 1,901,948
Fair value of KLA common stock issued for outstanding Orbotech shares ⁽²⁾	1,324,657
Cash for Orbotech equity awards ⁽³⁾	9,543
Fair value of KLA common stock issued to settle Orbotech equity awards ⁽⁴⁾	6,129
Stock options and RSUs assumed ⁽⁵⁾	13,281
Total purchase consideration	3,255,558
Less: cash acquired	(215,640)
Total purchase consideration, net of cash acquired	\$ 3,039,918
Allocation	
Accounts receivable, net	\$ 197,873
Inventories	330,325
Contract assets	63,181
Other current assets	70,622
Property, plant and equipment, net	97,664
Goodwill	1,845,728
Intangible assets	1,553,570
Other non-current assets	73,179
Accounts payable	(53,015)
Accrued liabilities	(173,507)
Other current liabilities ⁽⁶⁾	(73,057)
Deferred tax liabilities ⁽⁷⁾	(786,671)
Other non-current liabilities ⁽⁶⁾	(86,789)
Non-controlling interest	(19,185)
	\$ 3,039,918

- (1) Represents the total cash paid to settle 48.9 million outstanding Orbotech shares as of February 20, 2019 at \$38.86 per Orbotech share.
- (2) Represents the fair value of 12.2 million shares of our common stock issued to settle 48.9 million outstanding Orbotech shares. KLA issued 0.25 shares for each Orbotech share. The fair value of KLA's common stock was \$108.26 per share on the Acquisition Date.
- (3) Represents primarily cash consideration for the settlement of the vested stock options and restricted stock units for which services were rendered by the employees of Orbotech prior to the closing, and a small portion for the settlement of fractional shares.
- (4) Represents the fair value of 56,614 shares of KLA common stock issued to settle the vested Orbotech stock options. The fair value of KLA's common stock was \$108.26 per share on the Acquisition Date.
- (5) Represents the fair value of the assumed stock options and RSUs to the extent those related to services provided by the employees of Orbotech prior to closing. Also refer to Note 10 "Equity, Long-Term Incentive Compensation Plans and Non-Controlling Interest" of the Notes to the Condensed Consolidated Financial Statements for additional information about assumed stock options and RSUs.
- (6) On December 24, 2018, Orbotech, as part of its strategy to invest in the high growth area of the software business within the Printed Circuit Boards ("PCB") industry, acquired the remaining 50% of the shares of Frontline not already owned by it from Mentor Graphics Development Services (Israel) Ltd. Prior to the acquisition, Frontline was an equity investee. Orbotech acquired the shares for \$85.0 million in cash on hand and agreed to pay an additional \$10.0 million in cash over four years plus a cash earn-out of not less than \$5.0 million and up to \$20.0 million. The earn out amounts are based on revenues from a Frontline product currently under development. As of February 20, 2019, the estimated fair market values of the four-year cash payment and the earn-out were \$8.8 million and \$7.1 million, respectively. As of March 31, 2020, the estimated fair market values of the four-year cash payment and the earn-out were \$6.6 million and \$3.2 million, respectively, and these amounts have been included in current and non-current liabilities at \$2.4 million and \$7.4 million respectively.

- (7) Primarily related to tax impact on the future amortization of intangible assets acquired and inventory fair value adjustments.

The purchase price was allocated to tangible and identified intangible assets acquired and liabilities assumed based on their estimated fair values, which were determined using generally accepted valuation techniques on the basis of inputs and assumptions made by management at the time of the Orbotech Acquisition.

The operating results of Orbotech have been included in our Condensed Consolidated Financial Statements since the date of the acquisition. The goodwill was primarily attributable to the assembled workforce of Orbotech, planned growth in new markets and synergies expected to be achieved from the combined operations of KLA and Orbotech. None of the goodwill is deductible for income tax purposes. Goodwill arising from the Orbotech Acquisition was allocated to the Specialty Semiconductor Process and the PCB and Display reporting units during the fiscal year ended June 30, 2019. For additional details, refer to Note 7 "Goodwill and Purchased Intangible Assets" of the Notes to the Consolidated Financial Statements included in our Annual Report Form 10-K for the fiscal year ended June 30, 2019, as well as Note 7 "Goodwill and Purchased Intangible Assets" of the Notes to the Consolidated Financial Statements in this Form 10-Q.

Intangible Assets

The estimated fair value and weighted average useful life of the Orbotech intangible assets were as follows:

(In thousands)	Fair Value	Weighted Average Useful Lives (in years)
Existing technology ⁽¹⁾	\$ 1,008,000	8
Customer-related assets ⁽²⁾	227,000	8
Backlog ⁽³⁾	37,500	1
Trade name ⁽⁴⁾	91,500	7
Off market leases ⁽⁵⁾	2,070	7
Total identified finite-lived intangible assets	<u>1,366,070</u>	
In-process research and development ⁽⁶⁾	187,500	N/A
Total identified intangible assets	<u>\$ 1,553,570</u>	

- (1) Existing technology was identified from the products of Orbotech and its fair value was determined using the Relief-from-Royalty Method under the income approach, which estimates the cost savings generated by a company related to the ownership of an asset for which it would otherwise have had to pay royalties or license fees on revenues earned through the use of the asset. The discount rate used was determined at the time of measurement based on an analysis of the implied internal rate of return of the transaction, weighted average cost of capital and weighted average return on assets. The economic useful life was determined based on the technology cycle related to each developed technology, as well as the cash flows over the forecast period.
- (2) Customer contracts and related relationships represent the fair value of the existing relationships with the Orbotech customers and its fair value was determined using the Multi-Period Excess Earning Method which involves isolating the net earnings attributable to the asset being measured based on present value of the incremental after-tax cash flows (excess earnings) attributable solely to the intangible asset over its remaining useful life. The economic useful life was determined based on historical customer attrition rates.
- (3) Backlog primarily relates to the dollar value of purchase arrangements with customers, effective as of a given point in time, that are based on mutually agreed terms which, in some cases, may still be subject to completion of written documentation and may be changed or canceled by the customer, often without penalty. Orbotech's backlog consists of these arrangements with assigned shipment dates expected, in most cases, within three to twelve months. The fair value was determined using the Multi-Period Excess Earning Method. The economic useful life is based on the time to fulfill the outstanding order backlog obligation.
- (4) Trade name primarily relates to the "Orbotech" trade name. The fair value was determined by applying the Relief-from-Royalty Method under the income approach. The economic useful life was determined based on the expected life of the trade name.
- (5) The favorable / unfavorable components of the acquired leases were determined using the income approach which involves present valuing the difference in future cash flows between the contracted lease payments and the rent payable to a market participant over the lease terms. The economic useful life is based on the remaining lease term.

- (6) The fair value of in-process research and development (“IPR&D”) was determined using the relief-from-royalty method under the income approach, which estimates the cost savings generated by a company related to the ownership of an asset for which it would otherwise have had to pay royalties or license fees on revenues earned through the use of the asset.

We believe the amounts of purchased intangible assets recorded above represent the fair values of and approximate the amounts a market participant would pay for these intangible assets as of the Acquisition Date.

Our Condensed Consolidated Statements of Operations for the three and nine months ended March 31, 2019 included revenue of \$161.3 million and a net loss of \$28.7 million from Orbotech.

Other Fiscal 2019 Acquisitions

During the three months ended March 31, 2019 we acquired three privately-held companies primarily to expand our products and services offerings for an aggregate purchase price of \$118.3 million, including a post-closing working capital adjustment, and the fair value of the promise to pay additional consideration of up to \$13.0 million contingent on the achievement of certain milestones. As of March 31, 2020, the estimated fair value of the additional consideration was \$2.6 million, of which \$2.4 million was classified as a non-current liability and \$0.2 million was classified as a current liability on the Condensed Consolidated Balance Sheets.

During the three months ended September 30, 2018 we acquired two privately-held companies for an aggregate purchase price of \$15.4 million, including the fair value of the promise to pay total additional consideration of up to \$6.0 million contingent on the achievement of certain milestones. As of March 31, 2020, the estimated fair value of the additional consideration was \$0.7 million, which is classified as a non-current liability on the Condensed Consolidated Balance Sheets.

None of these acquisitions were individually material to our Condensed Consolidated Financial Statements.

The aggregate purchase price of the other fiscal 2019 acquisitions was allocated on a basis as follows:

(In thousands)	Fair Value
Net tangible assets (including cash and cash equivalents of \$2.6 million)	\$ 13,214
Identifiable intangible assets	75,130
Goodwill	45,380
Total	<u>\$ 133,724</u>

The goodwill was primarily assigned to the Wafer Inspection and Patterning, and GSS reporting units, and mainly attributable to the assembled workforce, and planned growth in new markets. A portion of the goodwill is deductible for income tax purposes.

Our Condensed Consolidated Statements of Operations for the three and nine months ended March 31, 2019 included revenues of \$2.3 million and \$3.1 million, respectively, and net losses of \$2.8 million and \$3.5 million, respectively, from these privately-held companies.

KLA, in the aggregate for the Orbotech and other fiscal 2019 acquisitions, incurred approximately \$37.2 million of acquisition-related costs, which are primarily included within selling, general and administrative expenses in our Condensed Consolidated Statements of Operations.

Supplemental Unaudited Pro Forma Information:

The following unaudited pro forma financial information summarizes the combined results of operations for KLA, Orbotech, and the three acquisitions completed in the third quarter of fiscal 2019 as if the companies were combined as of the beginning of fiscal 2018. The unaudited pro forma information includes adjustments to amortization and depreciation for intangible assets and property, plant and equipment acquired, adjustments to stock-based compensation expense, the purchase accounting effect on inventory acquired, the purchase accounting effect on deferred revenue, interest expense and amortization of debt issuance costs associated with the Senior Notes financing, and transaction costs.

The table below reflects the impact of material and nonrecurring adjustments to the unaudited pro forma results for the indicated periods that are directly attributable to the acquisitions:

Non-recurring Adjustments (In thousands)	Three Months Ended	Nine Months Ended
	March 31, 2019	
Decrease / (increase) to revenue as a result of deferred revenue fair value adjustment	—	—
(Decrease) / increase to expense as a result of inventory fair value adjustment	78	1,029
(Decrease) / increase to expense as a result of transaction costs	(53,342)	(61,378)
(Decrease) / increase to expense as a result of compensation costs	1,724	7,918

The unaudited pro forma information presented below is for informational purposes only and is not necessarily indicative of our consolidated results of operations of the combined business had the acquisitions actually occurred at the beginning of fiscal year 2018 or of the results of our future operations of the combined businesses.

(In thousands)	Three Months Ended	Nine Months Ended
	March 31, 2019	
Revenues	1,160,678	4,165,268
Net income attributable to KLA	192,577	1,033,653

We have not included pro forma results of operations for the acquisition of privately-held companies completed in the first quarter of fiscal 2019 or the first quarter of fiscal 2020 herein as they were not material to us either individually or in aggregate. We included the results of operations of each acquisition in our Condensed Consolidated Statements of Operations from the date of each acquisition.

NOTE 7 – GOODWILL AND PURCHASED INTANGIBLE ASSETS

Goodwill

Goodwill represents the excess of the purchase price over the fair value of the net tangible and identifiable intangible assets acquired in the current and prior business combinations. We have four reportable segments and six reporting units. For additional details, refer to Note 18 “Segment Reporting and Geographic Information” of the Notes to the Condensed Consolidated Financial Statements. The following table presents goodwill carrying value and the movements during the nine months ended March 31, 2020⁽¹⁾:

(In thousands)	Wafer Inspection and Patterning	Global Service and Support (“GSS”)	Specialty Semiconductor Process	PCB and Display	Component Inspection	Total
Balance as of June 30, 2019	\$ 360,615	\$ 25,908	\$ 821,842	\$ 989,918	\$ 13,575	\$ 2,211,858
Acquired goodwill	54,001	—	—	—	—	54,001
Goodwill adjustments	70	—	4,195	29,773	—	34,038
Goodwill impairment	—	—	(144,179)	(112,470)	—	(256,649)
Foreign currency adjustments	(119)	—	—	—	—	(119)
Balance as of March 31, 2020	\$ 414,567	\$ 25,908	\$ 681,858	\$ 907,221	\$ 13,575	\$ 2,043,129

(1) No goodwill was assigned to the Other reporting unit, and accordingly was excluded in the table above.

Goodwill is not subject to amortization but is tested for impairment annually during the third fiscal quarter as well as whenever events or changes in circumstances indicate that the carrying value may not be recoverable. In testing goodwill for impairment, we utilize a qualitative assessment to evaluate whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. When performing the qualitative assessment, we consider the following factors: declines in our stock price or market capitalization, declines in our market share, and declines in revenues or profitability at our reporting units. Any impairment charges could have a material adverse effect on our operating results and net asset value in the quarter in which we recognize the impairment charge.

If our qualitative assessment indicates that goodwill impairment is more likely than not, we perform a quantitative assessment by comparing the carrying value of net assets to the fair value of the reporting units. If the fair value is determined to

be less than the carrying value, the amount of impairment is computed as the excess of the carrying value over the estimated fair value, not to exceed the carrying value of goodwill. We completed the required annual testing of goodwill for impairment for all reporting units as of February 28, 2020 and concluded that goodwill was not impaired for the Wafer Inspection and Patterning, Global Service and Support, and Component Inspection reporting units.

However, due to the downward revision of financial outlook for the Specialty Semiconductor Process and PCB and Display reporting units as well as the impact of elevated risk and macroeconomic slowdown driven by the COVID-19 pandemic, we performed a quantitative goodwill impairment assessment for these reporting units. To determine the fair value of these reporting units, we utilized income and market approaches and applied a weighting of 75 percent and 25 percent, respectively. As a result, we recorded impairment charges of \$144.2 million and \$112.5 million in the Specialty Semiconductor Process and PCB and Display reporting units, respectively, in the three months ended March 31, 2020. The estimated fair value of each reporting unit was computed by adding the present value of the estimated annual discounted cash flows over a discrete projection period to the residual value of the business at the end of the projection period. This technique requires us to use significant estimates and assumptions, including long-term growth rates, discount rates, and other inputs. The estimated growth rates for the projection period are based on our internal forecasts of anticipated future performance of the business. The residual value is estimated based on a perpetual nominal growth rate, which is based on projected long-range inflation and long-term industry projections. The discount rates are determined based on the weighted average cost of capital of comparable peer companies. There can be no assurance that these estimates and assumptions will prove to be an accurate prediction of the future, and a downward revision of these estimates and / or assumptions would decrease the fair values of our reporting units, which could result in additional impairment charges in the future.

For our fiscal year ended June 30, 2019, we performed our annual qualitative assessment of goodwill by reporting unit during the third quarter and concluded that there was no impairment. For additional details, refer to Note 7 “Goodwill and Purchased Intangible Assets” of the Notes to the Consolidated Financial Statements included in the Company’s Annual Report on Form 10-K for the fiscal year ended June 30, 2019. The next annual assessment of goodwill by reporting unit is scheduled to be performed in the third quarter of the fiscal year ending June 30, 2021.

Purchased Intangible Assets

The components of purchased intangible assets as of the dates indicated below were as follows:

(In thousands)	Range of Useful Lives (in years)	As of March 31, 2020			As of June 30, 2019		
		Gross Carrying Amount	Accumulated Amortization, and Impairment	Net Amount	Gross Carrying Amount	Accumulated Amortization and Impairment	Net Amount
Existing technology	4-8	\$ 1,266,088	\$ 305,640	\$ 960,448	\$ 1,224,629	\$ 196,582	\$ 1,028,047
Customer relationships	4-9	305,017	90,606	214,411	297,250	66,471	230,779
Trade name / Trademark	4-7	117,133	35,650	81,483	114,573	25,052	89,521
Backlog and other	<1-9	50,403	44,636	5,767	43,969	19,146	24,823
Intangible assets subject to amortization		1,738,641	476,532	1,262,109	1,680,421	307,251	1,373,170
In-process research and development		175,835	100	175,735	187,500	—	187,500
Total		<u>\$ 1,914,476</u>	<u>\$ 476,632</u>	<u>\$ 1,437,844</u>	<u>\$ 1,867,921</u>	<u>\$ 307,251</u>	<u>\$ 1,560,670</u>

Purchased intangible assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset or asset group may not be recoverable. These events or changes in circumstances primarily include declines in our operating cash flows from the use of these assets. Therefore, due to the downward revision of financial outlook for the acquired Orbotech business as well as the impact of elevated risk and macroeconomic slowdown driven by the COVID-19 pandemic, we performed a quantitative test for impairment of our purchased intangible assets during the third quarter of fiscal 2020.

Long-lived assets and liabilities were grouped at the lowest levels for which identifiable cash flows are largely independent of the cash flows of other assets and liabilities. For the legacy Orbotech business, the asset group levels were determined to be the same as Specialty Semiconductor Process and PCB and Display reporting unit levels, respectively.

The fair values of the long-lived asset groups were determined using estimated future undiscounted cash flows which involves the use of significant estimates and assumptions including long-term revenue growth rates, expected useful lives of the intangible assets and salvage value of the long-lived assets. Based on our assessment, the purchased intangible asset values were not impaired as of March 31, 2020.

The change in the gross carrying amounts of intangible assets is due to acquisition of certain assets and liabilities of privately-held companies. For additional details, refer to Note 6 “Business Combinations” of the Notes to the Condensed Consolidated Financial Statements.

Amortization expense for purchased intangible assets for the periods indicated below was as follows:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Amortization expense - Cost of revenues	\$ 36,850	\$ 15,770	\$ 108,835	\$ 17,628
Amortization expense - Selling, general and administrative	17,724	10,086	60,237	10,973
Amortization expense - Research and development	31	12	193	12
Total	\$ 54,605	\$ 25,868	\$ 169,265	\$ 28,613

Based on the purchased intangible assets gross carrying amount recorded as of March 31, 2020, the underlying assets, the remaining estimated annual amortization expense is expected to be as follows:

Fiscal year ending June 30:	Amortization (In thousands)
2020 (remaining three months)	\$ 51,137
2021	196,847
2022	194,269
2023	193,177
2024	190,660
2025 and thereafter	436,019
Total	\$ 1,262,109

NOTE 8 – DEBT

The following table summarizes our debt as of March 31, 2020 and June 30, 2019:

	As of March 31, 2020		As of June 30, 2019	
	Amount (In thousands)	Effective Interest Rate	Amount (In thousands)	Effective Interest Rate
Fixed-rate 3.375% Senior Notes due on November 1, 2019	\$ —	—%	\$ 250,000	3.377%
Fixed-rate 4.125% Senior Notes due on November 1, 2021	—	—%	500,000	4.128%
Fixed-rate 4.650% Senior Notes due on November 1, 2024	1,250,000	4.682%	1,250,000	4.682%
Fixed-rate 5.650% Senior Notes due on November 1, 2034	250,000	5.670%	250,000	5.670%
Fixed-rate 4.100% Senior Notes due on March 15, 2029	800,000	4.159%	800,000	4.159%
Fixed-rate 5.000% Senior Notes due on March 15, 2049	400,000	5.047%	400,000	5.047%
Fixed-rate 3.300% Senior Notes due on March 1, 2050	750,000	3.302%	—	—%
Revolving Credit Facility	25,000	2.740%	—	
Total	3,475,000		3,450,000	
Unamortized discount	(8,375)		(8,738)	
Unamortized debt issuance costs	(22,688)		(17,880)	
Total	\$ 3,443,937		\$ 3,423,382	
Reported as:				
Current portion of long-term debt	\$ —		\$ 249,999	
Long-term debt	3,443,937		3,173,383	
Total	\$ 3,443,937		\$ 3,423,382	

As of March 31, 2020, future minimum principal payments for our debt are \$25.0 million in fiscal year 2024 and \$3.45 billion after fiscal year 2024.

Senior Notes and Debt Redemption:

In February 2020, we issued \$750.0 million (“2020 Senior Notes”), aggregate principal amount of senior, unsecured long-term notes under which the proceeds were used to redeem \$500.0 million of Senior Notes due 2021, including associated redemption premiums, accrued interest and other fees and expenses, to repay borrowings of \$200.0 million under the Revolving Credit Facility, and for other general corporate purpose. The redemption resulted in a pre-tax net loss on extinguishment of debt of \$22.5 million for the three months ended March 31, 2020.

In March 2019 and November 2014, we issued \$1.20 billion and \$2.50 billion, respectively (each, a “2019 Senior Notes”, a “2014 Senior Notes”, and collectively with the 2020 Senior Notes, the “Senior Notes”), aggregate principal amount of senior, unsecured long-term notes. In October 2019, we repaid \$250.0 million of Senior Notes.

In February 2020, S&P upgraded its credit rating of the Company to “BBB+” and revised its outlook to stable, which permanently removed interest rate adjustments and the interest rate on the 2014 Senior Notes became fixed. The interest rate for each series of the 2020 Senior Notes and 2019 Senior Notes are not subject to adjustments.

In January 2020, we entered into a series of forward contracts (“2020 Rate Lock Agreements”) to lock the 30-year treasury rate (“benchmark rate”) on a portion of the 2020 Senior Notes. The 2020 Rate Lock Agreements had a notional amount of \$350.0 million in aggregate and matured in the same quarter. The 2020 Rate Lock Agreements were terminated on the date of the pricing of the \$750.0 million of 3.300% Senior Notes due in 2050 and we recorded the fair value of \$21.5 million as a loss within Accumulated Other Comprehensive Income (Loss) (“OCI”) as of March 31, 2020, which will be amortized over the life of the debt. During the fiscal year ended June 30, 2018, we entered into a series of forward contracts (the “2018 Rate Lock Agreements”) to lock the benchmark interest rate with notional amount of \$500.0 million in aggregate. In October 2014, we entered into a series of forward contracts to lock the 10-year treasury rate (“benchmark rate”) on a portion of the 2014 Senior Notes with a notional amount of \$1.00 billion in aggregate. For additional details on the forward contracts, refer to Note 16 “Derivative Instruments and Hedging Activities” of the Notes to the Condensed Consolidated Financial Statements.

The original discounts on the 2020 Senior Notes, the 2019 Senior Notes and the 2014 Senior Notes amounted to \$0.3 million, \$6.7 million and \$4.0 million, respectively and are being amortized over the life of the debt. Interest is payable as follows: semi-annually on March 1 and September 1 of each year for the 2020 Senior Notes; semi-annually on March 15 and September 15 of each year for the 2019 Senior Notes; and semi-annually on May 1 and November 1 of each year for the 2014 Senior Notes. The indenture for the Senior Notes (the “Indenture”) includes covenants that limit our ability to grant liens on our facilities and enter into sale and leaseback transactions, subject to certain allowances under which certain sale and leaseback transactions are not restricted.

In certain circumstances involving a change of control followed by a downgrade of the rating of a series of Senior Notes by at least two of Moody’s, S&P and Fitch Inc., unless we have exercised our rights to redeem the Senior Notes of such series, we will be required to make an offer to repurchase all or, at the holder’s option, any part, of each holder’s Senior Notes of that series pursuant to the offer described below (the “Change of Control Offer”). In the Change of Control Offer, we will be required to offer payment in cash equal to 101% of the aggregate principal amount of Senior Notes repurchased plus accrued and unpaid interest, if any, on the Senior Notes repurchased, up to, but not including, the date of repurchase.

Based on the trading prices of the Senior Notes on the applicable dates, the fair value of the Senior Notes as of March 31, 2020 and June 30, 2019 was approximately \$3.68 billion and \$3.70 billion, respectively. While the Senior Notes are recorded at cost, the fair value of the long-term debt was determined based on quoted prices in markets that are not active; accordingly, the long-term debt is categorized as Level 2 for purposes of the fair value measurement hierarchy.

As of March 31, 2020, we were in compliance with all of our covenants under the Indenture associated with the Senior Notes.

Revolving Credit Facility:

In November 2017, we entered into a Credit Agreement (the “Credit Agreement”) providing for a \$750.0 million five-year unsecured Revolving Credit Facility (the “Revolving Credit Facility”), which replaced our prior Credit Facility. Subject to the terms of the Credit Agreement, the Revolving Credit Facility may be increased in an amount up to \$250.0 million in the aggregate. In November 2018, we entered into an Incremental Facility, Extension and Amendment Agreement (the “Amendment”), which amends the Credit Agreement to (a) extend the Maturity Date (the “Maturity Date”) from November 30, 2022 to November 30, 2023, (b) increase the total commitment by \$250.0 million and (c) effect certain other amendments to the Credit Agreement as set forth in the Amendment. After giving effect to the Amendment, the total commitments under the Credit Agreement are \$1.00 billion. During the second quarter of the fiscal year ending June 30, 2020, we borrowed \$250.0 million from the Revolving Credit Facility and made a principal payment of \$25.0 million within the same quarter. During the

third quarter of the fiscal year ending June 30, 2020, we made a principal payment of \$200.0 million. As of March 31, 2020, we had outstanding \$25.0 million aggregate principal amount of borrowings under the Revolving Credit Facility.

We may borrow, repay and reborrow funds under the Revolving Credit Facility until the Maturity Date, at which time such Revolving Credit Facility will terminate, and all outstanding loans under such facility, together with all accrued and unpaid interest, must be repaid. We may prepay outstanding borrowings under the Revolving Credit Facility at any time without a prepayment penalty.

Borrowings under the Revolving Credit Facility will bear interest, at our option, at either: (i) the Alternative Base Rate (“ABR”) plus a spread, which ranges from 0 bps to 75 bps, or (ii) the London Interbank Offered Rate (“LIBOR”) plus a spread, which ranges from 100 bps to 175 bps. The spreads under ABR and LIBOR are subject to adjustment in conjunction with credit rating downgrades or upgrades. We are also obligated to pay an annual commitment fee on the daily undrawn balance of the Revolving Credit Facility, which ranges from 10 bps to 25 bps, subject to an adjustment in conjunction with changes to our credit rating. As of March 31, 2020, we elected to pay interest on the borrowed amount under the Revolving Credit Facility at LIBOR plus a spread of 112.5 bps, and we pay an annual commitment fee of 12.5 bps on the daily undrawn balance of the Revolving Credit Facility.

The Revolving Credit Facility requires us to maintain an interest expense coverage ratio as described in the Credit Agreement, on a quarterly basis, covering the trailing four consecutive fiscal quarters of no less than 3.50 to 1.00. In addition, we are required to maintain the maximum leverage ratio as described in the Credit Agreement, on a quarterly basis of 3.00 to 1.00, covering the trailing four consecutive fiscal quarters for each fiscal quarter, which can be increased to 4.00 to 1.00 for a period of time in connection with a material acquisition or a series of material acquisitions. As of March 31, 2020, our maximum allowed leverage ratio was 3.50 to 1.00.

We were in compliance with all covenants under the Credit Agreement as of March 31, 2020.

NOTE 9– LEASES

We have operating leases for facilities, vehicles, and other equipment. Our facility leases are primarily used for administrative functions, research and development, manufacturing, and storage and distribution. Our finance leases are not material.

Our existing leases do not contain significant restrictive provisions or residual value guarantees; however, certain leases contain provisions for payment of maintenance, real estate taxes, or insurance costs by us. Our leases have remaining lease terms ranging from less than one year to ten years, including periods covered by options to extend the lease when it is reasonably certain that the option will be exercised.

Lease expense for the three and nine months ended March 31, 2020 was \$8.7 million and \$26.3 million, respectively. Expense related to short-term leases, which are not recorded on the Condensed Consolidated Balance Sheets, was not material for the three and nine months ended March 31, 2020. At March 31, 2020, the weighted average remaining lease term and weighted average discount rate for operating leases was 4.9 years and 1.64%, respectively.

Supplemental cash flow information related to leases was as follows:

	Amount (In thousands)
<u>Nine months ended March 31, 2020</u>	
Operating cash outflows from operating leases	\$ 26,048
ROU assets obtained in exchange for new operating lease liabilities	\$ 13,986

Maturities of lease liabilities as of March 31, 2020 were as follows:

Fiscal year ending June 30:	Amount (In thousands)
2020 (remaining three months)	\$ 8,146
2021	27,667
2022	20,656
2023	13,926
2024	9,046
2025 and thereafter	20,463
Total lease payments	99,904
Less imputed interest	(3,860)
Total	<u>\$ 96,044</u>

As of March 31, 2020, we did not have material leases that had not yet commenced.

As of June 30, 2019, future minimum lease payments as defined under the previous lease accounting guidance of ASC 840 under noncancelable operating leases were as follows:

Fiscal year ending June 30:	Amount (In thousands)
2020	\$ 30,296
2021	22,250
2022	16,217
2023	11,878
2024	7,912
2025 and thereafter	15,018
Total minimum lease payments	<u>\$ 103,571</u>

NOTE 10 – EQUITY, LONG-TERM INCENTIVE COMPENSATION PLANS AND NON-CONTROLLING INTEREST

Equity Incentive Program

As of March 31, 2020, we had 10.8 million shares available for issuance under our 2004 Equity Incentive Plan (the “2004 Plan”).

For details of the 2004 Plan refer to Note 9 “Equity, Long-Term Incentive Compensation Plans and Non-Controlling Interest” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

Assumed Equity Plans

As of the Orbotech Acquisition Date, we assumed outstanding equity incentive awards under the following Orbotech equity incentive plans: (i) Equity Remuneration Plan for Key Employees of Orbotech Ltd. and its Affiliates and Subsidiaries (as Amended and Restated in 2005), (ii) 2010 Equity-Based Incentive Plan, and (iii) 2015 Equity-Based Incentive Plan (each, an “Assumed Equity Plan” and collectively the “Assumed Equity Plans”).

As of March 31, 2020, there were 234,734 shares of our common stock underlying the outstanding Assumed RSUs under the Assumed Equity Plans. During the nine months ended March 31, 2020, there were 14,558 Assumed Options exercised with a weighted-average exercise price of \$54.00 per share.

For details on the Assumed Equity Plans refer to Note 9 “Equity, Long-Term Incentive Compensation Plans and Non-Controlling Interest” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

Equity Incentive Plans - General Information

The following table summarizes the combined activity under our equity incentive plans:

(In thousands)	Available For Grant^{(1) (2)}
Balance as of June 30, 2019	11,613
Restricted stock units granted ⁽³⁾	(948)
Restricted stock units granted adjustment	103
Restricted stock units canceled	55
Balance as of March 31, 2020	<u>10,823</u>

- (1) The number of RSUs reflects the application of the award multiplier of 2.0x to calculate the impact of the award on the shares reserved under the 2004 Plan.
- (2) No additional stock options, RSUs or other awards will be granted under the Assumed Equity Plans.
- (3) Includes RSUs granted to senior management during the nine months ended March 31, 2020 with performance-based vesting criteria (in addition to service-based vesting criteria for any of such RSUs that are deemed to have been earned) (“performance-based RSUs”). This line item includes all such performance-based RSUs granted during the nine months ended March 31, 2020 reported at the maximum possible number of shares that may ultimately be issuable if all applicable performance-based criteria are achieved at their maximum levels and all applicable service-based criteria are fully satisfied (0.4 million shares for the nine months ended March 31, 2020 reflects the application of the multiplier described above).

The fair value of stock-based awards is measured at the grant date and is recognized as an expense over the employee’s requisite service period. For RSUs granted without “dividend equivalent” rights, fair value is calculated using the closing price of our common stock on the grant date, adjusted to exclude the present value of dividends which are not accrued on those RSUs. The fair value for RSUs granted with “dividend equivalent” rights is determined using the closing price of our common stock on the grant date. The fair value for purchase rights under our Employee Stock Purchase Plan is determined using a Black-Scholes model.

The following table shows stock-based compensation expense for the indicated periods:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Stock-based compensation expense by:				
Costs of revenues	\$ 4,162	\$ 3,105	\$ 10,389	\$ 6,759
Research and development	6,577	4,986	16,936	9,988
Selling, general and administrative	20,531	26,102	57,678	49,279
Total stock-based compensation expense	<u>\$ 31,270</u>	<u>\$ 34,193</u>	<u>\$ 85,003</u>	<u>\$ 66,026</u>

The following table shows stock-based compensation capitalized as inventory as of the dates indicated below:

(In thousands)	As of March 31, 2020	As of June 30, 2019
Inventory	\$ 5,089	\$ 4,819

Restricted Stock Units

The following table shows the activity and weighted-average grant date fair value for RSUs during the nine months ended March 31, 2020:

	Shares ⁽¹⁾ (In thousands)	Weighted-Average Grant Date Fair Value
Outstanding restricted stock units as of June 30, 2019 ⁽²⁾	2,902	\$ 91.84
Granted ⁽³⁾	474	\$ 142.93
Granted adjustments	(52)	\$ 111.41
Vested and released	(650)	\$ 85.45
Withheld for taxes	(276)	\$ 85.45
Forfeited	(49)	\$ 104.62
Outstanding restricted stock units as of March 31, 2020 ⁽²⁾	<u>2,349</u>	<u>\$ 103.98</u>

(1) Share numbers reflect actual shares subject to awarded RSUs.

(2) Includes performance-based and market-based RSUs.

(3) This line item includes performance-based RSUs granted during the nine months ended March 31, 2020 reported at the maximum possible number of shares that may ultimately be issuable if all applicable performance-based criteria are achieved at their maximum levels and all applicable service-based criteria are fully satisfied (0.2 million shares for the nine months ended March 31, 2020).

The RSUs granted by us generally vest (a) with respect to awards with only service-based vesting criteria, over periods ranging from two to four years and (b) with respect to awards with both performance-based and service-based vesting criteria, in two equal installments on the third and fourth anniversaries of the grant date and (c) with respect to awards with both market-based and service-based vesting criteria in three equal installments on the third, fourth and fifth anniversaries of the grant date, in each case subject to the recipient remaining employed by us as of the applicable vesting date. The RSUs granted to the independent members of the Board of Directors vest annually.

The following table shows the weighted-average grant date fair value per unit for the RSUs granted, vested, and tax benefits realized by us in connection with vested and released RSUs for the indicated periods:

<u>(In thousands, except for weighted-average grant date fair value)</u>	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Weighted-average grant date fair value per unit	\$ 168.92	\$ 97.60	\$ 142.93	\$ 103.59
Weighted-average fair value per unit assumed upon Orbotech Acquisition	\$ —	\$ 104.49	\$ —	\$ 104.49
Grant date fair value of vested restricted stock units	\$ 22,459	\$ 4,740	\$ 79,194	\$ 47,674
Tax benefits realized by us in connection with vested and released restricted stock units	\$ 4,942	\$ 170	\$ 18,596	\$ 10,900

As of March 31, 2020, the unrecognized stock-based compensation expense balance related to RSUs was \$163.1 million, excluding the impact of estimated forfeitures, and will be recognized over a weighted-average remaining contractual term and an estimated weighted-average amortization period of 1.6 years. The intrinsic value of outstanding RSUs as of March 31, 2020 was \$337.7 million.

Cash-Based Long-Term Incentive Compensation

We have adopted a cash-based long-term incentive (“Cash LTI Plan”) program for many of our employees as part of our employee compensation program. Executives and non-employee members of the Board of Directors do not participate in this program. During the nine months ended March 31, 2020 and 2019, we approved Cash LTI awards of \$6.0 million and \$7.9 million, respectively under our Cash LTI Plan. Cash LTI awards issued to employees under the Cash LTI Plan will vest in three or four equal installments, with one-third or one-fourth of the aggregate amount of the Cash LTI award vesting on each anniversary of the grant date over a three or four-year period. In order to receive payments under a Cash LTI award, participants must remain employed by us as of the applicable award vesting date. During the three months ended March 31, 2020 and 2019, we recognized \$14.7 million and \$12.2 million, respectively, in compensation expense under the Cash LTI Plan. During the nine months ended March 31, 2020 and 2019, we recognized \$45.4 million and \$39.4 million, respectively, in compensation expense under the Cash LTI Plan. As of March 31, 2020, the unrecognized compensation balance (excluding the impact of estimated forfeitures) related to the Cash LTI Plan was \$105.8 million. For details, refer to Note 9 “Equity, Long-Term Incentive Compensation Plans and Non-Controlling Interest” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

Employee Stock Purchase Plan

Our Employee Stock Purchase Plan (“ESPP”) provides that eligible employees may contribute up to 15% of their eligible earnings toward the semi-annual purchase of our common stock. The ESPP is qualified under Section 423 of the Internal Revenue Code. The employee’s purchase price is derived from a formula based on the closing price of the common stock on the first day of the offering period versus the closing price on the date of purchase (or, if not a trading day, on the immediately preceding trading day).

The offering period (or length of the look-back period) under the ESPP has a duration of six months, and the purchase price with respect to each offering period beginning on or after such date is, until otherwise amended, equal to 85% of the lesser of (i) the fair market value of our common stock at the commencement of the applicable six-month offering period or (ii) the fair market value of our common stock on the purchase date. We estimate the fair value of purchase rights under the ESPP using a Black-Scholes model.

The fair value of each purchase right under the ESPP was estimated on the date of grant using the Black-Scholes model and the straight-line attribution approach with the following weighted-average assumptions:

	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Stock purchase plan:				
Expected stock price volatility	37.0%	36.3%	34.3%	33.2%
Risk-free interest rate	1.8%	2.4%	2.1%	2.1%
Dividend yield	1.9%	3.3%	2.2%	3.1%
Expected life (in years)	0.5	0.5	0.5	0.5

The following table shows total cash received from employees for the issuance of shares under the ESPP, the number of shares purchased by employees through the ESPP, the tax benefits realized by us in connection with the disqualifying dispositions of shares purchased under the ESPP and the weighted-average fair value per share for the indicated periods:

(In thousands, except for weighted-average fair value per share)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Total cash received from employees for the issuance of shares under the ESPP	\$ —	\$ —	\$ 24,500	\$ 20,556
Number of shares purchased by employees through the ESPP	—	—	237	270
Tax benefits realized by us in connection with the disqualifying dispositions of shares purchased under the ESPP	\$ 945	\$ 444	\$ 2,798	\$ 1,047
Weighted-average fair value per share based on Black-Scholes model	\$ 43.36	\$ 21.25	\$ 36.70	\$ 21.67

The ESPP shares are replenished annually on the first day of each fiscal year by virtue of an evergreen provision. The provision allows for share replenishment equal to the lesser of 2.0 million shares or the number of shares which we estimate will be required to be issued under the ESPP during the forthcoming fiscal year. As of March 31, 2020, a total of 2.4 million shares were reserved and available for issuance under the ESPP.

Quarterly cash dividends

On February 11, 2020, our Board of Directors declared a regular quarterly cash dividend of \$0.85 per share on the outstanding shares of our common stock, which was paid on March 5, 2020 to the stockholders of record as of the close of business on February 22, 2020. The total amount of regular quarterly cash dividends and dividend equivalents paid during the three months ended March 31, 2020 and 2019 was \$133.3 million and \$113.6 million, respectively. The total amount of regular quarterly cash dividends and dividend equivalents paid during the nine months ended March 31, 2020 and 2019 was \$389.7 million and \$348.0 million, respectively. The amount of accrued dividend equivalents payable for regular quarterly cash dividends on unvested RSUs with dividend equivalent rights as of March 31, 2020 and June 30, 2019 was \$8.1 million and \$7.3 million, respectively. These amounts will be paid upon vesting of the underlying RSUs.

Non-controlling Interest

We have consolidated the results of Orbotech LT Solar, LLC (“OLTS”) and Orbograph Ltd. (“Orbograph”), in which we own approximately 84% and 94% of the outstanding equity interest, respectively. OLTS is engaged in the research, development and marketing of products for the deposition of thin film coating of various materials on crystalline silicon photovoltaic wafers for solar energy panels through plasma-enhanced chemical vapor deposition (“PECVD”). Orbograph is engaged in the development and marketing of character recognition solutions to banks, financial and other payment processing institutions and healthcare providers.

Additionally, we have consolidated the results of PixCell, an Israeli company developing diagnostic equipment for point-of-care hematology applications of which we own approximately 52% of the outstanding equity interest and are entitled to appoint the majority of this company’s directors.

NOTE 11 – STOCK REPURCHASE PROGRAM

Our Board of Directors has authorized a program which permits us to repurchase shares of our common stock. The intent of this program is to offset the dilution from our equity incentive plans, employee stock purchase plan, the issuance of shares in the Orbotech Acquisition, as well as to return excess cash to our stockholders. Subject to market conditions, applicable legal requirements and other factors, the repurchases were made in the open market in compliance with applicable securities laws, including the Securities Exchange Act of 1934 and the rules promulgated thereunder, such as Rule 10b-18 and, if pursuant to a written plan, Rule 10b5-1. This stock repurchase program has no expiration date and may be suspended at any time. On September 17, 2019, our Board of Directors authorized us to repurchase an additional \$1.00 billion of our common stock. As of March 31, 2020, an aggregate of approximately \$1.04 billion was available for repurchase under the stock repurchase program.

Share repurchases for the indicated periods (based on the trade date of the applicable repurchase) were as follows:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Number of shares of common stock repurchased	1,977	1,770	5,326	7,107
Total cost of repurchases	\$ 311,995	\$ 206,017	\$ 821,084	\$ 756,204

NOTE 12 – NET INCOME PER SHARE

Basic net income per share is calculated by dividing net income available to common stockholders by the weighted-average number of common shares outstanding during the period. Diluted net income per share is calculated by using the weighted-average number of common shares outstanding during the period, increased to include the number of additional shares of common stock that would have been outstanding if the shares of common stock underlying our outstanding dilutive restricted stock units had been issued. The dilutive effect of outstanding restricted stock units is reflected in diluted net income per share by application of the treasury stock method.

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

(In thousands, except per share amounts)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Numerator:				
Net income attributable to KLA	\$ 78,452	\$ 192,728	\$ 805,532	\$ 957,772
Denominator:				
Weighted-average shares-basic, excluding unvested restricted stock units	156,067	156,349	157,356	154,561
Effect of dilutive restricted stock units and options	1,105	833	1,230	749
Weighted-average shares-diluted	157,172	157,182	158,586	155,310
Basic net income per share attributable to KLA	\$ 0.50	\$ 1.23	\$ 5.12	\$ 6.20
Diluted net income per share attributable to KLA	\$ 0.50	\$ 1.23	\$ 5.08	\$ 6.17
Anti-dilutive securities excluded from the computation of diluted net income per share	1	100	42	313

NOTE 13 – INCOME TAXES

The following table provides details of income taxes:

(Dollar amounts in thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Income before income taxes	\$ 115,199	\$ 221,390	\$ 911,642	\$ 1,064,921
Provision for income taxes	\$ 37,190	\$ 28,745	\$ 106,932	\$ 107,232
Effective tax rate	32.3%	13.0%	11.7%	10.1%

Our effective tax rate is higher than the U.S. federal statutory rate during the three months ended March 31, 2020 primarily due to goodwill impairment charge of \$256.6 million which is non-deductible for income tax. The proportion of earnings generated in jurisdictions with tax rates lower than the U.S. statutory rate and the proportion of the U.S. earnings eligible for the Foreign Derived Intangible Income deduction reduces our effective tax rate. The Foreign Derived Intangible Income deduction reduces the U.S. tax rate on sales to customers outside the U.S.

In the normal course of business, we are subject to examination by tax authorities throughout the world. We are subject to U.S. federal income tax examinations for all years beginning from the fiscal year ended June 30, 2017. We are subject to state income tax examinations for all years beginning from the fiscal year ended June 30, 2015. We are also subject to examinations in other major foreign jurisdictions, including Singapore and Israel, for all years beginning from the calendar year ended December 31, 2012. We are under audit in Germany related to Orbotech for the years ended December 31, 2013 to December 31, 2015.

It is possible that certain examinations may be concluded in the next twelve months. The timing and resolution of income tax examinations is uncertain. The amounts paid, if any, upon resolution of issues raised by the taxing authorities may differ materially from the amounts accrued for each year. Although it is possible that our balance of gross unrecognized tax benefits could materially change in the next 12 months, we are unable to estimate the full range of possible adjustments to this balance given the uncertainty in the development of ongoing income tax examinations.

In May 2017, Orbotech received an assessment from the Israel Tax Authority (“ITA”) with respect to its fiscal years 2012 through 2014 (the “Assessment”, and the “Audit Period”, respectively), for an aggregate amount of tax, after offsetting all net operating losses (“NOLs”) available through the end of 2014, of approximately NIS 229.0 million (equivalent to approximately \$66.0 million which includes related interest and linkage differentials to the Israeli consumer price index as of date of the issuance of the Tax Decrees, as defined below).

On August 31, 2018, Orbotech filed an objection in respect of the tax assessment (the “Objection”). The ITA completed the second stage of the audit, in which the claims Orbotech raised in the Objection were examined by different personnel at the ITA. In addition, the ITA examined additional items during this second stage of the audit. As Orbotech and the ITA did not reach an agreement during the second stage, the ITA issued Tax Decrees to Orbotech on August 28, 2019 (“Tax Decrees”) for an aggregate amount of tax, after offsetting all NOLs available through the end of 2014, of approximately NIS 257 million (equivalent to approximately \$74 million which includes related interest and linkage differentials to the Israeli consumer price index as of the date of the issuance of the Tax Decrees). These Tax Decrees replaced the Assessment. We believe that our recorded unrecognized tax benefits are sufficient to cover the resolution of these Tax Decrees.

Orbotech filed a notice of appeal with respect to the above Tax Decrees with the District Court of Tel Aviv on September 26, 2019. On February 27, 2020 the ITA filed its arguments in support of the Tax Decrees. The date for filing Orbotech's grounds of appeal with respect to the above Tax Decrees has been set for June 11, 2020. The ITA and Orbotech are continuing discussions in an effort to resolve this matter in a mutually agreeable manner.

In connection with the above, there is an ongoing criminal investigation in Israel against Orbotech, certain of its employees and its tax consultant. On April 11, 2018, Orbotech received a “suspect notification letter” (dated March 28, 2018) from the Tel Aviv District Attorney’s Office (Fiscal and Financial). In the letter, it was noted that the investigation file was transferred from the Assessment Investigation Officer to the District Attorney’s Office. The letter further stated that the District Attorney’s Office had not yet made a decision regarding submission of an indictment against Orbotech and that if, after studying the case, a decision is made to consider prosecuting Orbotech, Orbotech will receive an additional letter, and within 30 days, Orbotech may present its arguments to the District Attorney’s Office as to why it should not be indicted. On October 27, 2019, we received a request for additional information from the District Attorney’s Office. We will continue to monitor the progress of the District Attorney’s Office investigation; however, we cannot anticipate when the review of the case will be completed and what will be the results thereof. We intend to cooperate with the District Attorney’s Office to enable them to conclude their investigation.

NOTE 14 – LITIGATION AND OTHER LEGAL MATTERS

We are named from time to time as a party to lawsuits and other types of legal proceedings and claims in the normal course of our business. Actions filed against us include commercial, intellectual property, customer, and labor and employment related claims, including complaints of alleged wrongful termination and potential class action lawsuits regarding alleged violations of federal and state wage and hour and other laws. In general, legal proceedings and claims, regardless of their merit, and associated internal investigations (especially those relating to intellectual property or confidential information disputes) are often expensive to prosecute, defend or conduct and may divert management’s attention and other company resources. Moreover, the results of legal proceedings are difficult to predict, and the costs incurred in litigation can be substantial, regardless of outcome. We believe the amounts provided in our Condensed Consolidated Financial Statements are adequate in light of the probable and estimated liabilities. However, because such matters are subject to many uncertainties, the ultimate outcomes are not predictable, and there can be no assurances that the actual amounts required to satisfy alleged liabilities from the matters described above will not exceed the amounts reflected in our Condensed Consolidated Financial Statements or will not have a material adverse effect on our results of operations, financial condition or cash flows.

NOTE 15 – COMMITMENTS AND CONTINGENCIES

Factoring. We have agreements (referred to as “factoring agreements”) with financial institutions to sell certain of our trade receivables and promissory notes from customers without recourse. We do not believe we are at risk for any material losses as a result of these agreements. In addition, we periodically sell certain letters of credit (“LCs”), without recourse, received from customers in payment for goods and services.

The following table shows total receivables sold under factoring agreements and proceeds from sales of LCs for the indicated periods:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Receivables sold under factoring agreements	\$ 62,440	\$ 48,243	\$ 235,795	\$ 149,597
Proceeds from sales of LCs	\$ 26,572	\$ 40,303	\$ 47,178	\$ 59,534

Factoring and LC fees for the sale of certain trade receivables were recorded in other expense (income), net and were not material for the periods presented.

Purchase Commitments. We maintain commitments to purchase inventory from our suppliers as well as goods, services, and other assets in the ordinary course of business. Our liability under these purchase commitments is generally restricted to a forecasted time-horizon as mutually agreed upon between the parties. This forecasted time-horizon can vary among different suppliers. Our estimate of our significant purchase commitments for primarily material, services, supplies and asset purchases is approximately \$926.0 million as of March 31, 2020, which are primarily due within the next 12 months.

Actual expenditures will vary based upon the volume of the transactions and length of contractual service provided. In addition, the amounts paid under these arrangements may be less in the event that the arrangements are renegotiated or canceled. Certain agreements provide for potential cancellation penalties.

Cash Long-Term Incentive Plan. As of March 31, 2020, we have committed \$154.8 million for future payment obligations under our Cash LTI Plan. The calculation of compensation expense related to the Cash LTI Plan includes estimated forfeiture rate assumptions. Cash LTI awards issued to employees under the Cash LTI Plan vest in three or four equal installments, with one-third or one-fourth of the aggregate amount of the Cash LTI award vesting on each anniversary of the grant date over a three or four-year period. In order to receive payments under a Cash LTI award, participants must remain employed by us as of the applicable award vesting date.

Guarantees and Contingencies. We maintain guarantee arrangements available through various financial institutions for up to \$74.8 million, of which \$66.5 million had been issued as of March 31, 2020, primarily to fund guarantees to customs authorities for value-added tax (“VAT”) and other operating requirements of our subsidiaries in Europe, Israel and Asia.

Indemnification Obligations. Subject to certain limitations, we are obligated to indemnify our current and former directors, officers and employees with respect to certain litigation matters and investigations that arise in connection with their service to us. These obligations arise under the terms of our certificate of incorporation, our bylaws, applicable contracts, and Delaware and California law. The obligation to indemnify generally means that we are required to pay or reimburse the individuals’ reasonable legal expenses and possibly damages and other liabilities incurred in connection with these matters. For example, we have paid or reimbursed legal expenses incurred in connection with the investigation of our historical stock option practices and the related litigation and government inquiries by several of our current and former directors, officers and employees. Although the maximum potential amount of future payments we could be required to make under the indemnification obligations generally described in this paragraph is theoretically unlimited, we believe the fair value of this liability, to the extent estimable, is appropriately considered within the reserve we have established for currently pending legal proceedings.

We are a party to a variety of agreements pursuant to which we may be obligated to indemnify the other party with respect to certain matters. Typically, these obligations arise in connection with contracts and license agreements or the sale of assets, under which we customarily agree to hold the other party harmless against losses arising from, or provides customers with other remedies to protect against, bodily injury or damage to personal property caused by our products, non-compliance with our product performance specifications, infringement by our products of third-party intellectual property rights and a breach of warranties, representations and covenants related to matters such as title to assets sold, validity of certain intellectual property rights, non-infringement of third-party rights, and certain income tax-related matters. In each of these circumstances, payment by us is typically subject to the other party making a claim to and cooperating with us pursuant to the procedures specified in the particular contract. This usually allows us to challenge the other party's claims or, in case of breach of intellectual property representations or covenants, to control the defense or settlement of any third-party claims brought against the other party. Further, our obligations under these agreements may be limited in terms of amounts, activity (typically at our option to replace or correct the products or terminate the agreement with a refund to the other party), and duration. In some instances, we may have recourse against third parties and/or insurance covering certain payments made by us.

In addition, we may in limited circumstances enter into agreements that contain customer-specific commitments on pricing, tool reliability, spare parts stocking levels, response time and other commitments. Furthermore, we may give these customers limited audit or inspection rights to enable them to confirm that we are complying with these commitments. If a customer elects to exercise its audit or inspection rights, we may be required to expend significant resources to support the audit or inspection, as well as to defend or settle any dispute with a customer that could potentially arise out of such audit or inspection. To date, we have made no significant accruals in our Condensed Consolidated Financial Statements for this contingency. While we have not in the past incurred significant expenses for resolving disputes regarding these types of commitments, we cannot make any assurance that it will not incur any such liabilities in the future.

It is not possible to predict the maximum potential amount of future payments under these or similar agreements due to the conditional nature of our obligations and the unique facts and circumstances involved in each particular agreement. Historically, payments made by us under these agreements have not had a material effect on our business, financial condition, results of operations or cash flows.

NOTE 16 – DERIVATIVE INSTRUMENTS AND HEDGING ACTIVITIES

The authoritative guidance requires companies to recognize all derivative instruments and hedging activities, including foreign currency exchange contracts and interest rate lock agreements, (collectively "derivatives") as either assets or liabilities at fair value on the Condensed Consolidated Balance Sheets. In accordance with the accounting guidance, we designate foreign currency exchange contracts and interest rate lock agreements as cash flow hedges of certain forecasted foreign currency denominated sales, purchase and spending transactions, and the benchmark interest rate of the corresponding debt financing, respectively.

Our foreign subsidiaries operate and sell our products in various global markets. As a result, we are exposed to risks relating to changes in foreign currency exchange rates. We utilize foreign currency forward exchange contracts and option contracts to hedge against future movements in foreign exchange rates that affect certain existing and forecasted foreign currency denominated sales and purchase transactions, such as the Japanese yen, the euro, the pound sterling and the Israeli new shekel. We routinely hedge our exposures to certain foreign currencies with various financial institutions in an effort to minimize the impact of certain currency exchange rate fluctuations. These currency forward exchange contracts and options, designated as cash flow hedges, generally have maturities of less than 18 months. Cash flow hedges are evaluated for effectiveness monthly, based on changes in total fair value of the derivatives. If a financial counterparty to any of our hedging arrangements experiences financial difficulties or is otherwise unable to honor the terms of the foreign currency hedge, we may experience material losses.

In January 2020, we entered into a series of forward contracts ("2020 Rate Lock Agreements") to lock the benchmark interest rate on a portion of the \$750.0 million of 3.300% Senior Notes due in 2050 (the "2020 Senior Notes"). The 2020 Rate Lock Agreements had a notional amount of \$350.0 million in aggregate which matured in the same quarter. The 2020 Rate Lock Agreements were terminated on the date of the pricing of the 2020 Senior Notes and we recorded the fair value of \$21.5 million as a loss within accumulated other comprehensive income (loss) ("OCI") as of March 31, 2020, which will be amortized over the life of the debt. We recognized \$0.1 million for the three and nine months ended March 31, 2020, for the amortization of the loss recognized in accumulated other comprehensive income (loss), which increased the interest expense. As of March 31, 2020, the unamortized portion of the fair value of the forward contracts for the Rate Lock Agreements was \$21.5 million.

During the fiscal year ended June 30, 2018, we entered into a series of forward contracts (the “2018 Rate Lock Agreements”) to lock the benchmark interest rate prior to expected debt issuances. The objective of the 2018 Rate Lock Agreements was to hedge the risk associated with the variability in interest rates due to the changes in the benchmark rate leading up to the closing of the intended financing on the notional amount being hedged. The 2018 Rate Lock Agreement had a notional amount of \$500.0 million in aggregate, which matured and terminated in the third quarter of fiscal year ending June 30, 2019 and we recorded the fair value of \$13.6 million as a loss within OCI. We recognized \$0.3 million and \$0.9 million amortization of the loss recognized in accumulated OCI, which increased the interest expense for the three and nine months ended March 31, 2020. As of March 31, 2020, the unamortized portion of the fair value of the 2018 Rate Lock Agreements was \$12.4 million.

In October 2014, we entered into a series of forward contracts (“Rate Lock Agreements”) to lock the benchmark rate on a portion of the Senior Notes. The Rate Lock Agreements had a notional amount of \$1.00 billion in aggregate which matured in the second quarter of the fiscal year ended June 30, 2015. The Rate Lock Agreements were terminated on the date of the pricing of the \$1.25 billion of 4.650% Senior Notes due in 2024 and we recorded the fair value of \$7.5 million as a gain within accumulated other comprehensive income (loss) (“OCI”) as of December 31, 2014. We recognized \$0.2 million for each of the three months ended March 31, 2020 and 2019, and \$0.6 million for each of the nine months ended March 31, 2020 and 2019, for the amortization of the gain recognized in accumulated other comprehensive income (loss), which amount reduced the interest expense. As of March 31, 2020, the unamortized portion of the fair value of the forward contracts for the Rate Lock Agreements was \$3.5 million. For more details, refer to Note 16 “Derivative Instruments and Hedging Activities” of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

For derivatives that are designated and qualify as cash flow hedges, the effective portion of the gains or losses is reported in OCI and reclassified into earnings in the same period or periods during which the hedged transaction affects earnings. Prior to adopting the new accounting guidance for hedge accounting, time value was excluded from the assessment of effectiveness for derivatives designated as cash flow hedges. Time value was amortized on a mark-to-market basis and recognized in earnings over the life of the derivative contract. For derivative contracts executed after adopting the new accounting guidance, the election to include time value for the assessment of effectiveness is made on all forward contracts designated as cash flow hedges. The change in fair value of the derivative are recorded in OCI until the hedged item is recognized in earnings. The assessment of effectiveness of options contracts designated as cash flow hedges continue to exclude time value after adopting the new accounting guidance. The initial value of the component excluded from the assessment of effectiveness are recognized in earnings over the life of the derivative contract. Any difference between change in the fair value of the excluded components and the amounts recognized in earnings are recorded in OCI.

For derivatives that are not designated as cash flow hedges, gains and losses are recognized in other expense (income), net. We use foreign currency forward contracts to hedge certain foreign currency denominated assets or liabilities. The gains and losses on these derivative instruments are largely offset by the changes in the fair value of the assets or liabilities being hedged.

Derivatives in Cash Flow Hedging Relationships: Foreign Exchange and Interest Rate Contracts

The gains (losses) on derivatives in cash flow hedging relationships recognized in OCI for the indicated periods were as follows:

	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
(In thousands)				
Derivatives Designated as Hedging Instruments:				
Rate lock agreements:				
Amounts included in the assessment of effectiveness	\$ —	\$ (3,252)	\$ —	\$ (8,649)
Foreign exchange contracts:				
Amounts included in the assessment of effectiveness	\$ (19,268)	\$ 1,925	\$ (17,704)	\$ 2,163
Amounts excluded from the assessment of effectiveness	\$ (65)	\$ (53)	\$ (81)	\$ (82)

The locations and amounts of designated and non-designated derivative's gains and losses reported in the Condensed Consolidated Statements of Operations for the indicated periods were as follows:

	Three Months Ended March 31,				Three Months Ended March 31,			
	2020				2019			
(In thousands)	Revenue	Cost of Revenues and Operating Expenses	Interest Expense	Other Expense (Income), Net	Revenue	Cost of Revenues	Interest Expense	Other Expense (Income), Net
Total amounts presented in the Condensed Consolidated Statement of Operations in which the effects of cash flow hedges are recorded	\$ 1,423,964	\$ 1,248,000	\$ 39,231	\$ (1,004)	\$ 1,097,311	\$ 486,945	\$ 31,187	\$ (9,282)
Gains (losses) on Derivatives Designated as Hedging Instruments:								
Rate lock agreements:								
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$ —	\$ —	\$ (159)	\$ —	\$ —	\$ —	\$ 150	\$ —
Amount of gains (losses) reclassified from accumulated OCI to earnings as a result that a forecasted transaction is no longer probable of occurring	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Foreign exchange contracts:								
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$ 2,970	\$ 12	\$ —	\$ —	\$ 655	\$ (17)	\$ —	\$ 158
Amount excluded from the assessment of effectiveness recognized in earnings based on an amortization approach	\$ 81	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Amount excluded from the assessment of effectiveness	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ (121)
Gains (losses) on Derivatives Not Designated as Hedging Instruments:								
Amount of gains (losses) recognized in earnings	\$ —	\$ —	\$ —	\$ (4,373)	\$ —	\$ —	\$ —	\$ 513

(In thousands)	Nine Months Ended March 31,				Nine Months Ended March 31,			
	2020				2019			
	Revenue	Cost of Revenues and Operating Expenses	Interest Expense	Other Expense (Income), Net	Revenue	Cost of Revenues	Interest Expense	Other Expense (Income), Net
Total amounts presented in the Condensed Consolidated Statement of Operations in which the effects of cash flow hedges are recorded	\$ 4,346,831	\$ 3,297,788	\$ 120,053	\$ (5,190)	\$ 3,310,469	\$ 1,276,592	\$ 84,087	\$ (28,535)
Gains (losses) on Derivatives Designated as Hedging Instruments:								
Rate lock agreements:								
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$ —	\$ —	\$ (358)	\$ —	\$ —	\$ —	\$ 527	\$ —
Amount of gains (losses) reclassified from accumulated OCI to earnings as a result that a forecasted transaction is no longer probable of occurring	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Foreign exchange contracts:								
Amount of gains (losses) reclassified from accumulated OCI to earnings	\$ 3,530	\$ (1,806)	\$ —	\$ —	\$ 3,343	\$ (309)	\$ —	\$ 158
Amount excluded from the assessment of effectiveness recognized in earnings based on an amortization approach	\$ (114)	\$ —	\$ —	\$ —	\$ 80	\$ (8)	\$ —	\$ —
Amount excluded from the assessment of effectiveness	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ (208)
Gains (losses) on Derivatives Not Designated as Hedging Instruments:								
Amount of gains (losses) recognized in earnings	\$ —	\$ —	\$ —	\$ 8	\$ —	\$ —	\$ —	\$ 576

The U.S. dollar equivalent of all outstanding notional amounts of foreign currency hedge contracts, with maximum remaining maturities of approximately seven months as of the dates indicated below were as follows:

(In thousands)	As of March 31, 2020	As of June 30, 2019
Cash flow hedge contracts - foreign currency		
Purchase	\$ 36,378	\$ 31,108
Sell	\$ 91,259	\$ 113,226
Other foreign currency hedge contracts		
Purchase	\$ 242,521	\$ 257,614
Sell	\$ 312,282	\$ 273,061

The locations and fair value of our derivatives reported in our Condensed Consolidated Balance Sheets as of the dates indicated below were as follows:

(In thousands)	Asset Derivatives			Liability Derivatives		
	Balance Sheet Location	As of March 31, 2020	As of June 30, 2019	Balance Sheet Location	As of March 31, 2020	As of June 30, 2019
		Fair Value			Fair Value	
Derivatives designated as hedging instruments						
Foreign exchange contracts	Other current assets	\$ 601	\$ 397	Other current liabilities	\$ 316	\$ 2,097
Total derivatives designated as hedging instruments		601	397		316	2,097
Derivatives not designated as hedging instruments						
Foreign exchange contracts	Other current assets	9,957	2,160	Other current liabilities	590	1,237
Total derivatives not designated as hedging instruments		9,957	2,160		590	1,237
Total derivatives		\$ 10,558	\$ 2,557		\$ 906	\$ 3,334

The changes in OCI, before taxes, related to derivatives for the indicated periods were as follows:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
	Beginning balance	\$ (7,591)	\$ (5,615)	\$ (10,791)
Amount reclassified to earnings	(2,904)	(946)	(1,252)	(3,719)
Net change in unrealized gains or losses	(19,333)	(1,379)	(17,785)	(6,567)
Ending balance	\$ (29,828)	\$ (7,940)	\$ (29,828)	\$ (7,940)

Offsetting of Derivative Assets and Liabilities

We present derivatives at gross fair values in the Condensed Consolidated Balance Sheets. We have entered into arrangements with each of our counterparties, which reduce credit risk by permitting net settlement of transactions with the same counterparty under certain conditions. The information related to the offsetting arrangements for the periods indicated was as follows (in thousands):

Description	Gross Amounts of Derivatives	Gross Amounts of Derivatives Offset in the Condensed Consolidated Balance Sheets	Net Amount of Derivatives Presented in the Condensed Consolidated Balance Sheets	Gross Amounts of Derivatives Not Offset in the Condensed Consolidated Balance Sheets		
				Financial Instruments	Cash Collateral Received	Net Amount
				Derivatives - Assets	\$ 10,558	\$ —
Derivatives - Liabilities	\$ (906)	\$ —	\$ (906)	\$ 782	\$ —	\$ (124)

As of June 30, 2019

Description	Gross Amounts of Derivatives	Gross Amounts of Derivatives Offset in the Condensed Consolidated Balance Sheets	Net Amount of Derivatives Presented in the Condensed Consolidated Balance Sheets	Gross Amounts of Derivatives Not Offset in the Condensed Consolidated Balance Sheets		
				Financial Instruments	Cash Collateral Received	Net Amount
				Derivatives - Assets	\$ 2,557	\$ —
Derivatives - Liabilities	\$ (3,334)	\$ —	\$ (3,334)	\$ 1,397	\$ —	\$ (1,937)

NOTE 17– RELATED PARTY TRANSACTIONS

During the three and nine months ended March 31, 2020 and 2019, we purchased from, or sold to, several entities, where one or more of our executive officers or members of our Board of Directors, or their immediate family members, were, during the periods presented, an executive officer or a board member of a subsidiary, including Anaplan, Inc., Ansys, Inc., Citrix Systems, Inc., Integrated Device Technology, Inc., Keysight Technologies, Inc., Logmein Inc., MetLife Insurance K.K., NetApp, Inc. and Proofpoint, Inc. The following table provides the transactions with these parties for the indicated periods (for the portion of such period that they were considered related):

<i>(In thousands)</i>	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Total revenues	\$ 76	\$ 1,972	\$ 3,911	\$ 1,985
Total purchases	\$ 9	\$ 354	\$ 733	\$ 2,560

Our receivable and payable balances from these parties were immaterial as of March 31, 2020 and June 30, 2019.

NOTE 18 – SEGMENT REPORTING AND GEOGRAPHIC INFORMATION

ASC 280, Segment Reporting, establishes standards for reporting information about operating segments. Operating segments are defined as components of an enterprise about which separate financial information is evaluated regularly by the chief operating decision maker (“CODM”) in deciding how to allocate resources and in assessing performance. Our CODM is our Chief Executive Officer.

We have four reportable segments: Semiconductor Process Control; Specialty Semiconductor Process; PCB, Display and Component Inspection; and Other. The reportable segments are determined based on several factors including, but not limited to, customer base, homogeneity of products, technology, delivery channels and similar economic characteristics.

Semiconductor Process Control

The Semiconductor Process Control (“SPC”) segment offers comprehensive portfolio of inspection, metrology and data analytics products, and related service, which helps integrated circuit manufacturers achieve target yield throughout the entire semiconductor fabrication process—from research and development (“R&D”) to final volume production. Our differentiated products and services are designed to provide comprehensive solutions that help our customers accelerate development and production ramp cycles, achieve higher and more stable semiconductor die yields and improve their overall profitability. This reportable segment is comprised of two operating segments.

Specialty Semiconductor Process

The Specialty Semiconductor Manufacturing segment develops and sells advanced vacuum deposition and etching process tools, which are used by a broad range of specialty semiconductor customers, including manufacturers of microelectromechanical systems (“MEMS”), radio frequency (“RF”) communication chips, and power semiconductors for automotive and industrial applications. This reportable segment is comprised of one operating segment.

PCB, Display and Component Inspection

The PCB, Display and Component Inspection segment enables electronic device manufacturers to inspect, test and measure printed circuit boards (“PCBs”), flat panel displays (“FPDs”) and ICs to verify their quality, pattern the desired electronic circuitry on the relevant substrate and perform three-dimensional shaping of metalized circuits on multiple surfaces. This segment also engages in the development and marketing of character recognition solutions to banks, financial and other payment processing institutions and healthcare providers. This reportable segment is comprised of two operating segments.

Other

We engage in the research, development and marketing of products for the deposition of thin film coating of various materials on crystalline silicon photovoltaic wafers for solar energy panels. This reportable segment is comprised of one operating segment.

The CODM assesses the performance of each operating segment and allocates resources to those segments based on total revenue and segment gross margin and does not evaluate the segments using discrete asset information. Segment gross margin

excludes corporate allocations and effects of foreign exchange rates, amortization of intangible assets, amortization of inventory fair value adjustments, and transaction costs associated with our acquisitions related to costs of revenues.

The following is a summary of results for each of our four reportable segments for the indicated periods:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Semiconductor Process Control:				
Revenue	\$ 1,177,777	\$ 914,305	\$ 3,588,839	\$ 3,078,277
Segment gross margin	752,649	565,291	2,290,721	1,969,641
Specialty Semiconductor Process:				
Revenue	85,083	84,388	229,328	84,388
Segment gross margin	47,187	45,296	126,684	45,296
PCB, Display and Component Inspection:				
Revenue	160,411	98,462	525,242	148,187
Segment gross margin	71,163	45,912	229,769	67,000
Other:				
Revenue	469	151	3,217	151
Segment gross margin	(271)	3	499	3
Totals:				
Revenue	\$ 1,423,740	\$ 1,097,306	\$ 4,346,626	\$ 3,311,003
Segment gross margin	\$ 870,728	\$ 656,502	\$ 2,647,673	\$ 2,081,940

The following table reconciles total reportable segment revenue to total revenue for the indicated periods:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Total revenue for reportable segments	\$ 1,423,740	\$ 1,097,306	\$ 4,346,626	\$ 3,311,003
Corporate allocations and effects of foreign exchange rates	224	5	205	(534)
Total revenue	\$ 1,423,964	\$ 1,097,311	\$ 4,346,831	\$ 3,310,469

The following table reconciles total segment gross margin to total income before income taxes for the indicated periods:

(In thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Total segment gross margin	\$ 870,728	\$ 656,502	\$ 2,647,673	\$ 2,081,940
Acquisition-related charges, corporate allocations, and effects of foreign exchange rates ⁽¹⁾	36,922	46,136	128,859	48,063
Research and development	215,433	184,887	646,764	504,320
Selling, general and administrative	185,760	182,184	566,358	409,084
Goodwill impairment	256,649	—	256,649	—
Interest expense	39,231	31,187	120,053	84,087
Loss on extinguishment of debt	22,538	—	22,538	—
Other expense (income), net	(1,004)	(9,282)	(5,190)	(28,535)
Income before income taxes	\$ 115,199	\$ 221,390	\$ 911,642	\$ 1,064,921

(1) Acquisition-related charges primarily include amortization of intangible assets, amortization of inventory fair value adjustments, and other acquisition-related costs classified or presented as part of costs of revenues.

Our significant operations outside the United States include manufacturing facilities in China, Germany, Israel and Singapore and sales, marketing and service offices in Japan, the rest of the Asia Pacific region and Europe. For geographical revenue reporting, revenues are attributed to the geographic location in which the customer is located. Long-lived assets consist of land, property and equipment, net and are attributed to the geographic region in which they are located.

The following is a summary of revenues by geographic region, based on ship-to location, for the indicated periods:

(Dollar amounts in thousands)	Three Months Ended March 31,				Nine Months Ended March 31,			
	2020		2019		2020		2019	
Revenues:								
Taiwan	\$ 349,841	24%	\$ 275,507	25%	\$ 1,183,653	27%	\$ 796,478	24%
China	352,343	25%	206,164	19%	1,079,951	25%	816,176	25%
Japan	152,984	11%	146,069	13%	553,999	13%	461,930	14%
Korea	297,687	21%	196,490	18%	677,085	16%	476,959	14%
North America	159,250	11%	156,824	14%	499,750	11%	409,066	12%
Europe and Israel	76,021	5%	76,054	7%	232,870	5%	228,341	7%
Rest of Asia	35,838	3%	40,203	4%	119,523	3%	121,519	4%
Total	\$ 1,423,964	100%	\$ 1,097,311	100%	\$ 4,346,831	100%	\$ 3,310,469	100%

The following is a summary of revenues by major products for the indicated periods:

(Dollar amounts in thousands)	Three Months Ended March 31,				Nine Months Ended March 31,			
	2020		2019		2020		2019	
Revenues:								
Wafer Inspection	\$ 536,318	38%	\$ 309,600	28%	\$ 1,590,723	37%	\$ 1,235,445	37%
Patterning	298,973	21%	279,566	25%	970,709	22%	868,063	26%
Specialty Semiconductor Process	68,815	5%	76,386	7%	186,626	4%	76,386	2%
PCB, Display and Component Inspection	103,811	7%	68,143	6%	353,406	8%	111,974	4%
Services	372,868	26%	304,087	28%	1,093,210	25%	835,817	25%
Other	43,179	3%	59,529	6%	152,157	4%	182,784	6%
Total	\$ 1,423,964	100%	\$ 1,097,311	100%	\$ 4,346,831	100%	\$ 3,310,469	100%

Wafer Inspection, and Patterning products are offered in Semiconductor Process Control segment. Services are offered in multiple segments. Other includes primarily refurbished systems, remanufactured legacy systems, and enhancements and upgrades for previous-generation products which are part of Semiconductor Process Control segment.

In the three months ended March 31, 2020, two customers accounted for approximately 20% and 17% of total revenues. In the three months ended March 31, 2019, one customer accounted for approximately 19% of total revenues. In the nine months ended March 31, 2020, two customers accounted for approximately 20% and 13% and of total revenues. In the nine months ended March 31, 2019, two customers accounted for approximately 15% and 11% of total revenues. One customer on an individual basis accounted for greater than 10% of net accounts receivables at March 31, 2020 and June 30, 2019.

Land, property and equipment, net by geographic region as of the dates indicated below were as follows:

(In thousands)	As of March 31, 2020	As of June 30, 2019
Land, property and equipment, net:		
United States	\$ 310,730	\$ 253,255
Singapore	51,091	49,523
Israel	58,257	66,082
Europe	59,034	62,027
Rest of Asia	18,631	17,912
Total	\$ 497,743	\$ 448,799

NOTE 19 – RESTRUCTURING CHARGES

In September 2019, management approved a plan to streamline our organization and business processes that included the reduction of workforce, which is expected to be completed in the second half of our fiscal year 2021, primarily in our PCB, Display and Component Inspection segment, and a potential disposition of our solar energy business in our Other segment. Restructuring charges were \$3.7 million and \$6.5 million for the three and nine months ended March 31, 2020. Proceeds from disposition of our solar energy business are not expected to be material. As of March 31, 2020, the accrual for restructuring charges was \$5.2 million.

We expect to incur additional restructuring charges, including additional severance costs and other related costs in future periods in connection with the completion of our workforce reduction.

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

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This report contains certain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. All statements other than statements of historical fact may be forward-looking statements. You can identify these and other forward-looking statements by the use of words such as “may,” “will,” “could,” “would,” “should,” “expects,” “plans,” “anticipates,” “relies,” “believes,” “estimates,” “predicts,” “intends,” “potential,” “continue,” “thinks,” “seeks,” or the negative of such terms, or other comparable terminology. Forward-looking statements also include the assumptions underlying or relating to any of the foregoing statements. Such forward-looking statements include, among others, the future impacts of the COVID-19 pandemic; forecasts of the future results of our operations, including profitability; orders for our products and capital equipment generally; sales of semiconductors; the investments by our customers in advanced technologies and new materials; the allocation of capital spending by our customers (and, in particular, the percentage of spending that our customers allocate to process control); growth of revenue in the semiconductor industry, the semiconductor capital equipment industry and our business; technological trends in the semiconductor industry; future developments or trends in the global capital and financial markets; our future product offerings and product features; the success and market acceptance of new products; timing of shipment of backlog; our future product shipments and product and service revenues; our future gross margins; our future research and development expenses and selling, general and administrative expenses; our ability to successfully maintain cost discipline; international sales and operations; our ability to maintain or improve our existing competitive position; success of our product offerings; creation and funding of programs for research and development; attraction and retention of employees; results of our investment in leading edge technologies; the effects of hedging transactions; the effect of the sale of trade receivables and promissory notes from customers; our future effective income tax rate; our recognition of tax benefits; the effects of any audits or litigation; future payments of dividends to our stockholders; the completion of any acquisitions of third parties, or the technology or assets thereof; benefits received from any acquisitions and development of acquired technologies; sufficiency of our existing cash balance, investments, cash generated from operations and the unfunded portion of our revolving line of credit under a Credit Agreement (the “Credit Agreement”) to meet our operating and working capital requirements, including debt service and payment thereof; future dividends, and stock repurchases; our compliance with the financial covenants under the Credit Agreement; the adoption of new accounting pronouncements including ASC 842 and ASC 606; the tax liabilities resulting from the enactment of the Tax Cuts and Jobs Act; and our repayment of our outstanding indebtedness.

Our actual results may differ significantly from those projected in the forward-looking statements in this report. Factors that might cause or contribute to such differences include, but are not limited to, those discussed in Part II, Item 1A, “Risk Factors” in this report as well as in Item 1, “Business” and Item 7, “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in our Annual Report on Form 10-K for the year ended June 30, 2019, filed with the Securities and Exchange Commission on August 16, 2019. You should carefully review these risks and also review the risks described in other documents we file from time to time with the Securities and Exchange Commission. You are cautioned not to place undue reliance on these forward-looking statements, and we expressly assume no obligation and do not intend to update the forward-looking statements in this report after the date hereof.

EXECUTIVE SUMMARY

We are a leading supplier of process control and yield management solutions for the semiconductor and related nanoelectronics industries. Our broad portfolio of inspection and metrology products, and related service, software and other offerings primarily supports integrated circuit (“IC” or “chip”) manufacturers throughout the entire semiconductor fabrication process, from research and development to final volume production. We provide leading edge equipment, software and support that enable IC manufacturers to identify, resolve and manage significant advanced technology manufacturing process challenges and obtain higher finished product yields at lower overall cost. In addition to serving the semiconductor industry, we also provide a

range of technology solutions to a number of other high technology industries, including advanced packaging, light emitting diode (“LED”), power devices, compound semiconductor, and data storage industries, as well as general materials research.

Our products and services are used by the vast majority of bare wafer, IC, lithography reticle (“reticle” or “mask”) and hard disk drive manufacturers around the world. Our products, services and expertise are used by our customers to measure, detect, analyze and resolve critical product defects that arise in that environment in order to control nanometric level manufacturing processes.

Our revenues are driven largely by our customers’ spending on capital equipment and related maintenance services necessary to support key transitions in their underlying product technologies, or to increase their production volumes in response to market demand or expansion plans. Our semiconductor customers generally operate in one or more of the three major semiconductor markets - memory, foundry and logic. All three of these markets are characterized by rapid technological changes and sudden shifts in end-user demand, which influence the level and pattern of our customers’ spending on our products and services. Although capital spending in all three semiconductor markets has historically been very cyclical, the demand for more advanced and lower cost chips used in a growing number of consumer electronics, communications, data processing, and industrial and automotive products has resulted over the long term in a favorable demand environment for our process control and yield management solutions, particularly in the foundry and logic markets, which have higher levels of process control adoption than the memory market.

Through the acquisition of Orbotech, Ltd. (“Orbotech”), we have expanded our reach in the electronics value chain to include technologically advanced, yield-enhancing and process-enabling solutions to address various manufacturing stages of Printed Circuit Boards (“PCB”), Flat Panel Displays (“FPD”), Specialty Semiconductor Devices (“SD”) and other electronic components. The products include Automated Optical Inspection (“AOI”), Automated Optical Shaping (“AOS”), Direct Imaging (“DI”), additive printing, laser drilling, laser plotters, Computer aided manufacturing (“CAM”) and engineering solutions for PCB and additional adjacent electronics component manufacturing, as well as AOI, test, repair and process monitoring systems for FPD manufacturing and vacuum process tools for etch, Physical Vapor Deposition (“PVD”), Molecular Vapor Deposition (“MVD”) and Chemical Vapor Deposition (“CVD”) solutions for SD manufacturing.

In our Orbotech business, consumer end markets have been experiencing an increase in technology complexity, driven primarily by the proliferation of high-end mobile devices and automotive devices, as well as by long-term demand for large area FPDs such as large-size LCD televisions and OLED displays. The shift towards 5G connectivity and the fast-paced growth of the Internet of Things (“IoT”) services is expected to continue in the long-term to further accelerate this shift as more devices become connected and dependent upon other electronic devices.

As a supplier to the global semiconductor, semiconductor-related and electronics industries, our customer base continues to become more highly concentrated over time, thereby increasing the potential impact of a sudden change in capital spending by a major customer on our revenues and profitability. As our customer base becomes increasingly more concentrated, large orders from a relatively limited number of customers account for a substantial portion of our sales, which potentially exposes us to more volatility for revenues and earnings. In the global semiconductor and electronics related industries, China is emerging as a major region for manufacturing of logic and memory chips, adding to its role as the world’s largest consumer of ICs. Additionally, a significant portion of global FPD and PCB manufacturing has migrated to China. Government initiatives are propelling China to expand its domestic manufacturing capacity and attracting semiconductor manufacturers from Taiwan, Korea, Japan and the US. China is currently seen as an important long-term growth region for the semiconductor and electronics capital equipment sector. We are also subject to the cyclical capital spending that has historically characterized the semiconductor, semiconductor-related and electronics industries. The timing, length, intensity and volatility of the capacity-oriented capital spending cycles of our customers are unpredictable.

The semiconductor and electronics industries have also been characterized by constant technological innovation. There are multiple drivers for growth in the industry with increased demand for chips providing computation power and connectivity for Artificial Intelligence (“AI”) applications and support for mobile devices at the leading edge of foundry and logic chip manufacturing. Qualification of early extreme ultraviolet (“EUV”) lithography processes and equipment is driving growth at leading logic/foundry and dynamic random-access memory (“DRAM”) manufacturers. Expansion of IoT together with increasing acceptance of advanced driver assistance systems (“ADAS”) in anticipation of the introduction of autonomous cars have begun to accelerate legacy-node technology conversions and capacity expansions. Intertwined in these areas, spurred by data storage and connectivity needs, is the growth in demand for memory chips. On the other hand, higher design costs for the most advanced ICs could economically constrain leading-edge manufacturing technology customers to focus their resources on only the large technologically advanced products and applications. We believe that, over the long term, our customers will continue to invest in advanced technologies and new materials to enable smaller design rules and higher density applications that fuel demand for process control equipment, although the growth for such equipment may be adversely impacted by higher design costs for

advanced ICs, reuse of installed products, and delays in production ramps by our customers in response to higher costs and technical challenges at more advanced technology nodes.

Additionally, the long-term trends in smart mobile devices, 5G connectivity, automotive electronics, smart vehicles, flexible displays, AR / VR and wearable devices, high-performance computing, large size televisions and the IoT are expected to drive the need for production, inspection, test and repair solutions that are able to address the cutting-edge technology embedded in these types of electronic products.

The demand for our products and our revenue levels are driven by our customers' needs to solve the process challenges that they face as they adopt new technologies required to fabricate advanced ICs that are incorporated into sophisticated mobile devices. Our customers continuously seek to increase yields and enhance the efficiency of their manufacturing processes, including by improving their manufacturing, inspection, testing and repair capabilities.

Subsequent to the Orbotech Acquisition, we changed our organizational structure resulting in four reportable segments: Semiconductor Process Control, Specialty Semiconductor Process, PCB, Display and Component Inspection, and Other. Prior period results have been recast to conform to the current presentation.

The following table sets forth some of our key quarterly unaudited financial information⁽¹⁾:

<u>(In thousands, except net income per share)</u>	Three Months Ended				
	March 31, 2020	December 31, 2019	September 30, 2019	June 30, 2019	March 31, 2019
Total revenues	\$ 1,423,964	\$ 1,509,453	\$ 1,413,414	\$ 1,258,435	\$ 1,097,311
Gross margin	\$ 833,806	\$ 875,835	\$ 809,173	\$ 665,650	\$ 610,366
Net income attributable to KLA ⁽²⁾	\$ 78,452	\$ 380,555	\$ 346,525	\$ 217,845	\$ 192,728
Diluted net income per share attributable to KLA ⁽³⁾	\$ 0.50	\$ 2.40	\$ 2.16	\$ 1.35	\$ 1.23

- (1) On February 20, 2019, we completed the acquisition of Orbotech for total consideration of approximately \$3.26 billion. The operating results of Orbotech have been included in our Condensed Consolidated Financial Statements from the Acquisition Date. For additional details, refer to Note 6 "Business Combinations" in the Notes to our Condensed Consolidated Financial Statements.
- (2) Our net income attributable to KLA decreased to \$78.5 million in the three months ended March 31, 2020, primarily as a result of a pre-tax goodwill impairment charges of \$256.6 million, and a pre-tax net loss of \$22.5 million as a result of the loss on extinguishment of debt. For additional details, refer to Note 7 "Goodwill and Purchased Intangible Assets", and Note 8 "Debt" in the Notes to the Condensed Consolidated Financial Statements.
- (3) Diluted net income per share is computed independently for each of the quarters presented based on the weighted-average fully diluted shares outstanding for each quarter. Therefore, the sum of quarterly diluted net income per share information may not equal annual (or other multiple-quarter calculations of) diluted net income per share.

Impact of COVID-19

The coronavirus disease 2019 ("COVID-19") pandemic has adversely impacted global economic growth in the quarter ended March 31, 2020 and is expected to lead to a global recession, as the effects of business disruption, rapidly rising unemployment, and reduction in consumer spending are felt on the global economy. The full impact of the rapidly evolving pandemic on consumer demand and the global economy remains uncertain. It is unclear whether the potential COVID-19 pandemic induced recession, supported by record levels of monetary and fiscal stimulus, will result in a temporary push-out in global demand, or whether it will instead result in demand destruction and an elongated economic recovery. These headwinds have created an elevated level of business uncertainty and may result in industry and customer demand below our previous expectations.

The global COVID-19 pandemic impacted KLA starting in the quarter ended March 31, 2020 and has created unprecedented challenges we are facing and will face as part of a global community. Social distancing, suspension of international travel, local or national restriction on travel or shelter-in-place policies, and customer mandated policies have impacted our employees' work routines, our supply chain, as well as our responsiveness and ability to send engineers into customer facilities provide support services.

We will continue to monitor the situation. As of the date of this report, we cannot predict with certainty the potential effects the COVID-19 may have on our business and our operating results for the remainder of calendar 2020.

Acquisition of Orbotech, Ltd.

On February 20, 2019, we completed the acquisition of Orbotech, Ltd. (“Orbotech”) for total consideration of approximately \$3.26 billion. Orbotech’s core business enables electronic device manufacturers to inspect, test and measure printed circuit boards and flat panel displays to verify their quality; pattern electronic circuitry on substrate and perform three-dimensional shaping of metalized circuits on multiple surfaces; and utilize advanced vacuum deposition and etching process in semiconductor device and semiconductor manufacturing and to perform laser drilling of electronic substrates. For additional details on the financial statement impacts of the Orbotech acquisition, refer to Note 6 “Business Combinations” in the Notes to the Condensed Consolidated Financial Statements.

CRITICAL ACCOUNTING ESTIMATES AND POLICIES

The preparation of our Condensed Consolidated Financial Statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions in applying our accounting policies that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosure of contingent assets and liabilities. We base these estimates and assumptions on historical experience and evaluate them on an ongoing basis to ensure that they remain reasonable under current conditions. Actual results could differ from those estimates. We discuss the development and selection of the critical accounting estimates with the Audit Committee of our Board of Directors on a quarterly basis, and the Audit Committee has reviewed our related disclosure in this Quarterly Report on Form 10-Q.

Goodwill and Purchased Intangible Assets. We assess goodwill for impairment annually as well as whenever events or changes in circumstances indicate that the carrying value may not be recoverable. Long-lived purchased intangible assets are tested for impairment whenever events or changes in circumstances indicate that their carrying amounts may not be recoverable. Events or changes in circumstances that could affect the likelihood that we will be required to recognize an impairment charge for goodwill include, but are not limited to, declines in our stock price or market capitalization, declines in our market share, and declines in revenues or profits at our reporting units. Additionally, events or changes in circumstances that could affect the likelihood that we will be required to recognize an impairment charge for the purchased intangible assets primarily include declines in our operating cash flows from the use of these assets. Any impairment charges could have a material adverse effect on our operating results and net asset value in the quarter in which we recognize the impairment charge. As described in Note 7 “Goodwill and Purchased Intangible Assets” in the Notes to the Condensed Consolidated Financial Statements, we recorded impairment losses related to goodwill of \$256.6 million in the third quarter of fiscal 2020.

We updated our accounting policies for Leases. There have been no other material changes in our critical accounting estimates and policies since our Annual Report on Form 10-K for the fiscal year ended June 30, 2019. Refer to Note 1 “Basis of Presentation” in the Notes to the Condensed Consolidated Financial Statements for additional details. In addition, please refer to Management’s Discussion and Analysis of Financial Condition and Results of Operations contained in Part II, Item 7 of our Annual Report on Form 10-K for our fiscal year ended June 30, 2019 for a more complete discussion of our critical accounting policies and estimates.

Recent Accounting Pronouncements

For a description of recent accounting pronouncements, including those recently adopted and the expected dates of adoption as well as estimated effects, if any, on our Condensed Consolidated Financial Statements of those not yet adopted, see Note 1 “Basis of Presentation” in the Notes to the Condensed Consolidated Financial Statements for additional details.

RESULTS OF OPERATIONS**Revenues and Gross Margin**

(Dollar amounts in thousands)	Three Months Ended		Q3 FY20 vs. Q3 FY19	
	March 31, 2020	March 31, 2019		
Revenues:				
Product	\$ 1,051,096	\$ 793,224	\$ 257,872	33%
Service	372,868	304,087	68,781	23%
Total revenues	\$ 1,423,964	\$ 1,097,311	\$ 326,653	30%
Costs of revenues	\$ 590,158	\$ 486,945	\$ 103,213	21%
Gross margin percentage	59%	56%		

(Dollar amounts in thousands)	Nine Months Ended		Q3 FY20 YTD vs. Q3 FY19 YTD	
	March 31, 2020	March 31, 2019		
Revenues:				
Product	\$ 3,253,621	\$ 2,474,652	\$ 778,969	31%
Service	1,093,210	835,817	257,393	31%
Total revenues	\$ 4,346,831	\$ 3,310,469	\$ 1,036,362	31%
Costs of revenues	\$ 1,828,017	\$ 1,276,592	\$ 551,425	43%
Gross margin percentage		58%	61%	

Product revenues

Our business is affected by the concentration of our customer base and our customers' capital equipment procurement schedules as a result of their investment plans. Our product revenues in any particular period are significantly impacted by the amount of new orders that we receive during that period and, depending upon the duration of manufacturing and installation cycles, in the preceding period.

Product revenues increased during the three months ended March 31, 2020 compared to the three months ended March 31, 2019, primarily due to a strong demand from our customers in the wafer inspection business and an increase of \$25.8 million in product revenue from our Orbotech business which was acquired in February of 2019.

Product revenues increased during the nine months ended March 31, 2020 compared to the nine months ended March 31, 2019, primarily due to a strong demand from our customers in the wafer inspection and patterning businesses, and an increase of \$354.7 million in product revenue from our Orbotech business which was acquired in February of 2019, partially offset by lower products shipments to customers in the memory business.

Service revenues

Service revenues are generated from product maintenance and support services, as well as billable time and material service calls made to our customers. The amount of our service revenues is typically a function of the number of systems installed at our customers' sites and the utilization of those systems, but it is also impacted by other factors, such as our rate of service contract renewals, the types of systems being serviced and fluctuations in foreign exchange rates.

Service revenues during the three and nine months ended March 31, 2020 increased compared to three and nine months ended March 31, 2019, primarily due to an increase in service revenue from our Orbotech business which was acquired in February of 2019, and an increase in the number of systems installed at our customers' site.

Revenues by segment⁽¹⁾

(Dollar amounts in thousands)	Three Months Ended		Q3 FY20 vs. Q3 FY19	
	March 31, 2020	March 31, 2019		
Revenues:				
Semiconductor Process Control	\$ 1,177,777	\$ 914,305	\$ 263,472	29%
Specialty Semiconductor Process	85,083	84,388	695	(2)
PCB, Display and Component Inspection	160,411	98,462	61,949	(2)
Other	469	151	318	(2)
Total revenues	\$ 1,423,740	\$ 1,097,306	\$ 326,434	(2)

(Dollar amounts in thousands)	Nine Months Ended		Q3 FY20 YTD vs. Q3 FY19 YTD	
	March 31, 2020	March 31, 2019		
Revenues:				
Semiconductor Process Control	\$ 3,588,839	\$ 3,078,277	\$ 510,562	17%
Specialty Semiconductor Process	229,328	84,388	144,940	(2)
PCB, Display and Component Inspection	525,242	148,187	377,055	(2)
Other	3,217	151	3,066	(2)
Total revenues	\$ 4,346,626	\$ 3,311,003	\$ 1,035,623	(2)

- (1) Segment revenues exclude corporate allocations and the effects of foreign exchange rates. For additional details, refer to Note 18 “Segment Reporting and Geographic Information” in the Notes to the Condensed Consolidated Financial Statements.
- (2) Orbotech was acquired in February 2019 and, as a result, no meaningful comparative information exists for the three and nine months ended March 31, 2019. Specifically, revenue for the three and the nine months ended March 31, 2020 periods, include full quarter results compared to partial quarter results for the three and nine months ended March 31, 2019 periods.

Three months ended March 31, 2020 compared to three months ended March 31, 2019

Revenue from our Semiconductor Process Control segment increased by 29% primarily due to a strong demand from our customers in the wafer inspection business, and growth in service revenues.

Nine months ended March 31, 2020 compared to nine months ended March 31, 2019

Revenue from our Semiconductor Process Control segment increased by 17% primarily due to a strong demand from our customers in the wafer inspection and patterning businesses, and growth in service revenues.

Revenues by region

The following is a summary of revenues by geographic region, based on ship-to location, for the indicated periods:

(Dollar amounts in thousands)	Three Months Ended				Nine Months Ended			
	March 31, 2020		March 31, 2019		March 31, 2020		March 31, 2019	
Taiwan	\$ 349,841	24%	\$ 275,507	25%	\$ 1,183,653	27%	\$ 796,478	24%
China	352,343	25%	206,164	19%	1,079,951	25%	816,176	25%
Japan	152,984	11%	146,069	13%	553,999	13%	461,930	14%
Korea	297,687	21%	196,490	18%	677,085	16%	476,959	14%
North America	159,250	11%	156,824	14%	499,750	11%	409,066	12%
Europe and Israel	76,021	5%	76,054	7%	232,870	5%	228,341	7%
Rest of Asia	35,838	3%	40,203	4%	119,523	3%	121,519	4%
Total	\$ 1,423,964	100%	\$ 1,097,311	100%	\$ 4,346,831	100%	\$ 3,310,469	100%

A significant portion of our revenues continues to be generated in Asia, where a substantial portion of the world's semiconductor manufacturing capacity is located, and we expect that trend to continue.

Gross margin

Our gross margin fluctuates with revenue levels and product mix and is affected by variations in costs related to manufacturing and servicing our products, including our ability to scale our operations efficiently and effectively in response to prevailing business conditions.

The following table summarizes the major factors that contributed to the changes in gross margin percentage:

	Gross Margin Percentage	
	Three Months Ended	Nine Months Ended
March 31, 2019	55.6%	61.4%
Revenue volume of products and services	2.5%	1.0%
Mix of products and services sold	(0.7)%	(1.7)%
Manufacturing labor, overhead and efficiencies	(1.1)%	(1.8)%
Other service and manufacturing costs	0.1%	(0.1)%
Impact from Orbotech business	2.2%	(0.9)%
March 31, 2020	58.6%	57.9%

Changes in gross margin percentage, which are driven by the revenue volume of products and services, reflect our ability to leverage existing infrastructure to generate higher revenues. It also includes average customer pricing, customer revenue deferrals associated with volume purchase agreements, and the effect of fluctuations in foreign exchange rates. Changes in gross margin percentage from the mix of products and services sold, reflect the impact of changes within the composition of product and service offerings, and amortization of inventory fair value adjustments from business combinations. Changes in gross margin percentage from manufacturing labor, overhead and efficiencies reflect our ability to manage costs and drive productivity as we scale our manufacturing activity to respond to customer requirements, and amortization of intangible assets. Changes in gross margin percentage from other service and manufacturing costs include the impact of customer support costs, including the efficiencies with which we deliver services to our customers, and the effectiveness with which we manage our production plans and inventory risk. In addition, Orbotech was acquired in February 2019 and, as a result, gross margin related to the Orbotech business for the three and the nine months ended March 31, 2020 periods, include full quarter results compared to partial quarter results for the three and nine months ended March 31, 2019 periods.

The increase in our gross margin during the three months ended March 31, 2020 compared to the three months ended March 31, 2019, is primarily attributable to a higher revenue volume of products and services sold from our Semiconductor Process Control and Orbotech businesses, partially offset by an increase in service and manufacturing costs.

The decrease in our gross margin during the nine months ended March 31, 2020 compared to the nine months ended March 31, 2019, primarily attributable to an increase in service and manufacturing costs, an unfavorable mix of products and services sold from our Semiconductor Process Control business, and the impact from our acquired Orbotech business which

had lower product gross margins, partially offset by a higher revenue volume of products and services sold from our Semiconductor Process Control business.

Segment gross margin⁽¹⁾

(Dollar amounts in thousands)	Three months ended		Q3 FY20 vs. Q3 FY19	
	March 31, 2020	March 31, 2019		
Segment gross margin:				
Semiconductor Process Control	\$ 752,649	\$ 565,291	\$ 187,358	33%
Specialty Semiconductor Process	47,187	45,296	1,891	(2)
PCB, Display and Component Inspection	71,163	45,912	25,251	(2)
Other	(271)	3	(274)	(2)
	<u>\$ 870,728</u>	<u>\$ 656,502</u>	<u>\$ 214,226</u>	(2)

(Dollar amounts in thousands)	Nine months ended		Q3 FY20 YTD vs. Q3 FY19 YTD	
	March 31, 2020	March 31, 2019		
Segment gross margin:				
Semiconductor Process Control	\$ 2,290,721	\$ 1,969,641	\$ 321,080	16%
Specialty Semiconductor Process	126,684	45,296	81,388	(2)
PCB, Display and Component Inspection	229,769	67,000	162,769	(2)
Other	499	3	496	(2)
	<u>\$ 2,647,673</u>	<u>\$ 2,081,940</u>	<u>\$ 565,733</u>	(2)

- (1) Segment gross margin is calculated as segment revenues less segment cost of revenues and excludes corporate allocations, amortization of intangible assets, inventory fair value adjustments, acquisition related costs, and the effects of foreign exchange rates. For additional details, refer to Note 18 “Segment Reporting and Geographic Information” in the Notes to the Condensed Consolidated Financial Statements.
- (2) Orbotech was acquired in February 2019 and, as a result, no meaningful comparative information exists for the three and nine months ended March 31, 2019. Specifically, revenue for the three and the nine months ended March 31, 2020 periods, include full quarter results compared to partial quarter results for the three and nine months ended March 31, 2019 periods.

Three months ended March 31, 2020 compared to three months ended March 31, 2019

Semiconductor Process Control segment gross margin increased primarily due to a higher revenue volume of products and services sold, partially offset by an increase in service and manufacturing costs.

Nine months ended March 31, 2020 compared to nine months ended March 31, 2019

Semiconductor Process Control segment gross margin increased primarily due to a higher revenue volume of products and services sold, partially offset by unfavorable mix of products and services sold and an increase in service and manufacturing costs.

Research and Development (“R&D”)

(Dollar amounts in thousands)	Three Months Ended		Q3 FY20 vs. Q3 FY19	
	March 31, 2020	March 31, 2019		
R&D expenses	\$ 215,433	\$ 184,887	\$ 30,546	17%
R&D expenses as a percentage of total revenues	15%	17%		

(Dollar amounts in thousands)	Nine Months Ended		Q3 FY20 YTD vs. Q3 FY19 YTD	
	March 31, 2020	March 31, 2019		
R&D expenses	\$ 646,764	\$ 504,320	\$ 142,444	28%
R&D expenses as a percentage of total revenues	15%	15%		

R&D expenses may fluctuate with product development phases and project timing as well as our R&D efforts. As technological innovation is essential to our success, we may incur significant costs associated with R&D projects, including compensation for engineering talent, engineering material costs, and other expenses.

R&D expenses during the three months ended March 31, 2020 increased compared to the three months ended March 31, 2019, primarily due to an increase in employee-related expenses of \$12.8 million as a result of additional engineering headcount, higher employee benefit costs and higher variable compensation, and an increase in expenses related to the Orbotech business of \$20.6 million.

R&D expenses during the nine months ended March 31, 2020 increased compared to the nine months ended March 31, 2019, primarily due to an increase in employee-related expenses of \$41.2 million as a result of additional engineering headcount, higher employee benefit costs and higher variable compensation, and an increase in expenses related to the Orbotech business of \$100.9 million.

Our future operating results will depend significantly on our ability to produce products and provide services that have a competitive advantage in our marketplace. To do this, we believe that we must continue to make substantial and focused investments in our research and development. We remain committed to product development in new and emerging technologies.

Selling, General and Administrative (“SG&A”)

(Dollar amounts in thousands)	Three Months Ended		Q3 FY20 vs. Q3 FY19	
	March 31, 2020	March 31, 2019		
SG&A expenses	\$ 185,760	\$ 182,184	\$ 3,576	2%
SG&A expenses as a percentage of total revenues	13%	17%		

(Dollar amounts in thousands)	Nine Months Ended		Q3 FY20 YTD vs. Q3 FY19 YTD	
	March 31, 2020	March 31, 2019		
SG&A expenses	\$ 566,358	\$ 409,084	\$ 157,274	38%
SG&A expenses as a percentage of total revenues	13%	12%		

SG&A expenses during the three months ended March 31, 2020 increased compared to the three months ended March 31, 2019, primarily due to an increase in employee-related expenses of \$9.4 million as a result of additional headcount, higher employee benefit costs and variable compensation, and an increase in expenses related to the Orbotech business of \$18.3 million, partially offset by a decrease in acquisition-related expenses of \$20.7 million and \$10.9 million of stock-based compensation expense acceleration for certain equity awards for Orbotech employees recorded in the three months ended March 31, 2019.

SG&A expenses during the nine months ended March 31, 2020 increased compared to the nine months ended March 31, 2019, primarily due to an increase; in employee-related expenses of \$38.4 million as a result of additional headcount, higher employee benefit costs and variable compensation; depreciation expense of \$10.2 million; and expenses related to the Orbotech business of \$130.2 million which includes an increase in amortization expense for purchased intangible assets of \$41.5 million. These increases were partially offset by a decrease in acquisition-related expenses of \$27.1 million and \$10.9 million of stock-based compensation expense acceleration for certain equity awards for Orbotech employees recorded in the three months ended March 31, 2019.

Goodwill Impairment

We completed the required annual testing of goodwill for impairment for all reporting units as of February 28, 2020 and concluded that goodwill was not impaired for the Wafer Inspection and Patterning, Global Service and Support, and Component Inspection reporting units.

However, due to the downward revision of financial outlook for the Specialty Semiconductor Process and PCB and Display reporting units as well as the impact of elevated risk and macroeconomic slowdown driven by the COVID-19 pandemic, we performed a quantitative goodwill impairment assessment for these reporting units. To determine the fair value of these reporting units, we utilized the income and market approaches and applied a weighting of 75 percent and 25 percent, respectively. As a result, we recorded impairment charges of \$144.2 million and \$112.5 million in the Specialty Semiconductor Process and PCB and Display reporting units, respectively, in the three months ended March 31, 2020.

For our fiscal year ended June 30, 2019, we performed our annual qualitative assessment of goodwill by reporting unit during the third quarter and concluded that there was no impairment.

Restructuring Charges

In September 2019, management approved a plan to streamline our organization and business processes that included the reduction of workforce, which is expected to be completed in the second half of our fiscal year 2021, primarily in our PCB, Display and Component Inspection segment, and a potential disposition of our solar energy business in our Other segment. Restructuring charges were \$3.7 million and \$6.5 million for the three and nine months ended March 31, 2020. Proceeds from disposition of our solar energy business are not expected to be material. As of March 31, 2020, the accrual for restructuring charges was \$5.2 million.

We expect to incur additional restructuring charges in future periods in connection with the completion of our workforce reduction. Proceeds from disposition of our solar energy business is not expected to be material. For additional information refer to Note 19 “Restructuring Charges” in the Notes to the Condensed Consolidated Financial Statements.

Interest Expense and Other Expense (Income), Net

(Dollar amounts in thousands)	Three Months Ended	
	March 31, 2020	March 31, 2019
Interest expense	\$ 39,231	\$ 31,187
Other expense (income), net	\$ (1,004)	\$ (9,282)
Interest expense as a percentage of total revenues	3 %	3%
Other expense (income), net as a percentage of total revenues	— %	1%

(Dollar amounts in thousands)	Nine Months Ended	
	March 31, 2020	March 31, 2019
Interest expense	\$ 120,053	\$ 84,087
Other expense (income), net	\$ (5,190)	\$ (28,535)
Interest expense as a percentage of total revenues	3 %	3%
Other expense (income), net as a percentage of total revenues	— %	1%

The increase in interest expense during the three and nine months ended March 31, 2020 compared to the three and nine months ended March 31, 2019, was primarily due to additional interest expense on the \$1.20 billion Senior Notes issued in March 2019.

Other expense (income), net is comprised primarily of realized gains or losses on sales of marketable securities, gains or losses from revaluations of certain foreign currency denominated assets and liabilities as well as foreign currency contracts, and interest-related accruals (such as interest and penalty accruals related to our tax obligations) and interest income earned on our invested cash, cash equivalents and marketable securities.

The decrease in other expense (income), net during the three months ended March 31, 2020 compared to the three months ended March 31, 2019 was primarily due to a decrease in interest income as a result of lower investment balances as well as lower interest rate, and an increase in accruals related to uncertain tax positions of \$1.8 million.

The decrease in other expense (income), net during the nine months ended March 31, 2020 compared to the nine months ended March 31, 2019 was primarily due to a decrease in interest income of \$13.3 million, higher net foreign exchange losses of \$4.0 million, and an increase in accruals related to uncertain tax positions of \$1.9 million.

Loss on Extinguishment of Debt

For the three and nine months ended March 31, 2020, loss on extinguishment of debt, reflected a pre-tax net loss of \$22.5 million associated with the redemption of our \$500.0 million of the Senior Notes due 2021, including associated redemption premiums, accrued interest and other fees and expenses. We had no loss on extinguishment of debt in the three and nine months ended March 31, 2019.

Provision for Income Taxes

The following table provides details of income taxes:

(Dollar amounts in thousands)	Three Months Ended March 31,		Nine Months Ended March 31,	
	2020	2019	2020	2019
Income before income taxes	\$ 115,199	\$ 221,390	\$ 911,642	\$ 1,064,921
Provision for income taxes	\$ 37,190	\$ 28,745	\$ 106,932	\$ 107,232
Effective tax rate	32.3%	13.0%	11.7%	10.1%

The effective tax rate during the three months ended March 31, 2020 was higher compared to the three months ended March 31, 2019 primarily due to a \$256.6 million goodwill impairment charge, which is non-deductible for income tax. Excluding the goodwill impairment charge, tax expense was lower as a percentage of income before taxes during the three months ended March 31, 2020 compared to the three months ended March 31, 2019 primarily due to the impact of the following items:

- Tax expense decreased by \$4.8 million during the three months ended March 31, 2020 relating to the redemption of senior notes;
- Tax expense decreased by \$2.2 million during the three months ended March 31, 2020 relating to our employee stock-based compensation; and
- Tax expense decreased by \$5.6 million during the three months ended March 31, 2020 relating to a decrease in the valuation of Orbotech shares held by subsidiaries of Orbotech; offset by
- Tax expense increased by \$10.6 million during the three months ended March 31, 2020 relating to a non-deductible decrease in the value of the assets held within our Executive Deferred Savings Plan.

The effective tax rate during the nine months ended March 31, 2020 was higher compared to the nine months ended March 31, 2019 primarily due to a \$256.6 million goodwill impairment charge, which is non-deductible for income tax. Excluding the goodwill impairment charge, tax expense was lower as a percentage of income before taxes during the nine months ended March 31, 2020 compared to the nine months ended March 31, 2019 primarily due to the impact of the following items:

- Tax expense decreased by \$4.8 million during the nine months ended March 31, 2020 relating to the redemption of senior notes; and
- Tax expense decreased by \$5.6 million during the three months ended March 31, 2020 relating to a decrease in the valuation of Orbotech shares held by subsidiaries of Orbotech.

Our future effective income tax rate depends on various factors, such as tax legislation, the geographic composition of our pre-tax income, the amount of our pre-tax income as business activities fluctuate, non-deductible expenses incurred in connection with acquisitions, research and development credits as a percentage of aggregate pre-tax income, non-taxable or non-deductible increases or decreases in the assets held within our Executive Deferred Savings Plan, the tax effects of employee stock activity and the effectiveness of our tax planning strategies.

In the normal course of business, we are subject to examination by tax authorities throughout the world. We are subject to U.S. federal income tax examinations for all years beginning from the fiscal year ended June 30, 2017. We are subject to state income tax examinations for all years beginning from the fiscal year ended June 30, 2015. We are also subject to examinations in other major foreign jurisdictions, including Singapore and Israel, for all years beginning from the calendar year ended December 31, 2012. We are under audit in Germany related to Orbotech for the years ended December 31, 2013 to December 31, 2015. Although we believe our tax estimates are reasonable, the final determination of tax audits and any related litigation could be materially different from our historical income tax provisions and accruals. The results of an audit or litigation could have a material adverse effect on our results of operations or cash flows in the period or periods for which that determination is made.

In May 2017, Orbotech received an assessment from the Israel Tax Authority (“ITA”) with respect to its fiscal years 2012 through 2014 (the “Assessment”, and the “Audit Period”, respectively), for an aggregate amount of tax, after offsetting all net operating losses (“NOLs”) available through the end of 2014, of approximately NIS 229 million (equivalent to approximately \$66 million which includes related interest and linkage differentials to the Israeli consumer price index as of date of the issuance of the Tax Decrees, as defined below).

On August 31, 2018, Orbotech filed an objection in respect of the tax assessment (the “Objection”). The ITA completed the second stage of the audit, in which the claims Orbotech raised in the Objection were examined by different personnel at the ITA. In addition, the ITA examined additional items during this second stage of the audit. As Orbotech and the ITA did not reach an agreement during the second stage, the ITA issued Tax Decrees to Orbotech on August 28, 2019 (“Tax Decrees”) for an aggregate amount of tax, after offsetting all NOLs available through the end of 2014, of approximately NIS 257 million (equivalent to approximately \$74 million which includes related interest and linkage differentials to the Israeli consumer price index as of the date of the issuance of the Tax Decrees). These Tax Decrees replaced the Assessment. We believe that our recorded unrecognized tax benefits are sufficient to cover the resolution of these Tax Decrees.

Orbotech filed a notice of appeal with respect to the above Tax Decrees with the District Court of Tel Aviv on September 26, 2019. On February 27, 2020, the ITA filed its arguments in support of the Tax Decrees. The date for filing Orbotech’s grounds of appeal with respect to the above Tax Decrees has been set for June 11, 2020. The ITA and Orbotech are continuing discussions in an effort to resolve this matter in a mutually agreeable manner.

In connection with the above, there is an ongoing criminal investigation in Israel against Orbotech, certain of its employees and its tax consultant. On April 11, 2018, Orbotech received a “suspect notification letter” (dated March 28, 2018) from the Tel Aviv District Attorney’s Office (Fiscal and Financial). In the letter, it was noted that the investigation file was transferred from the Assessment Investigation Officer to the District Attorney’s Office. The letter further states that the District Attorney’s Office has not yet made a decision regarding submission of an indictment against Orbotech; and that if after studying the case, a decision is made to consider prosecuting Orbotech, Orbotech will receive an additional letter, and within 30 days, Orbotech may present its arguments to the District Attorney’s Office as to why it should not be indicted. On October 27, 2019, we received a request for additional information from the District Attorney’s Office. We will continue to monitor the progress of the District Attorney’s Office investigation; however, we cannot anticipate when the review of the case will be completed and what will be the results thereof. We intend to cooperate with the District Attorney’s Office to enable them to conclude their investigation.

Liquidity and Capital Resources

<u>(Dollar amounts in thousands)</u>	<u>As of March 31, 2020</u>	<u>As of June 30, 2019</u>
Cash and cash equivalents	\$ 946,175	\$ 1,015,994
Marketable securities	688,356	723,391
Total cash, cash equivalents and marketable securities	<u>\$ 1,634,531</u>	<u>\$ 1,739,385</u>
Percentage of total assets	18%	19%

<u>(In thousands)</u>	<u>Nine Months Ended March 31,</u>	
	<u>2020</u>	<u>2019</u>
Cash flows:		
Net cash provided by operating activities	\$ 1,326,004	\$ 827,171
Net cash used in investing activities	(153,053)	(1,211,421)
Net cash (used in) provided by financing activities	(1,238,280)	72,141
Effect of exchange rate changes on cash and cash equivalents	(4,490)	(110)
Net (decrease) increase in cash and cash equivalents	<u>\$ (69,819)</u>	<u>\$ (312,219)</u>

Cash and Cash Equivalents and Marketable Securities:

As of March 31, 2020, our cash, cash equivalents and marketable securities totaled \$1.63 billion, which represents a decrease of \$104.9 million from June 30, 2019. The decrease is mainly due to stock repurchases of \$829.1 million, cash used for payment of dividends and dividend equivalents of \$389.7 million, capital expenditures of \$110.9 million and \$78.6 million paid to fund business acquisitions, partially offset by cash provided by operating activities.

As of March 31, 2020, \$761.9 million of our \$1.63 billion of cash, cash equivalents and marketable securities were held by our foreign subsidiaries and branch offices. We currently intend to indefinitely reinvest \$465.6 million of the cash, cash equivalents and marketable securities held by our foreign subsidiaries for which we assert that earnings are permanently reinvested. If, however, a portion of these funds were to be repatriated to the United States, we would be required to accrue and pay state and foreign taxes of approximately 1%-22% of the funds repatriated. The amount of taxes due will depend on the amount and manner of the repatriation, as well as the location from which the funds are repatriated. We have accrued state and foreign tax on the remaining cash of \$296.3 million of the \$761.9 million held by our foreign subsidiaries and branch offices. As such, these funds can be returned to the U.S. without accruing any additional U.S. tax expense.

Cash Dividends:

During the three months ended March 31, 2020, our Board of Directors declared a regular quarterly cash dividend of \$0.85 per share on our outstanding common stock, which was paid on March 5, 2020 to our stockholders of record as of the close of business on February 22, 2020. During the same period in fiscal year 2019, our Board of Directors declared and paid a regular quarterly cash dividend of \$0.75 per share on our outstanding common stock. The total amount of regular quarterly cash dividends and dividend equivalents paid during the three months ended March 31, 2020 and 2019 was \$133.3 million and \$113.6 million, respectively. The total amount of regular quarterly cash dividends and dividend equivalents paid during the nine months ended March 31, 2020 and 2019 was \$389.7 million and \$348.0 million, respectively. The amount of accrued dividend equivalents payable for regular quarterly cash dividends on unvested restricted stock units (RSUs) with dividend equivalent rights as of March 31, 2020 and June 30, 2019 was \$8.1 million and \$7.3 million, respectively. These amounts will be paid upon vesting of the underlying unvested RSU as described in Note 10 "Equity, Long-term Incentive Compensation Plans and Non-Controlling Interest" in the Notes to the Condensed Consolidated Financial Statements.

Stock Repurchases:

The shares repurchased under our stock repurchase program have reduced our basic and diluted weighted-average shares outstanding for the nine months ended March 31, 2020 and 2019. The stock repurchase program is intended, in part, to offset shares issued in connection with the purchases under our Employee Stock Purchase Plan ("ESPP") program and the vesting of employee restricted stock units.

Cash Flows from Operating Activities:

We have historically financed our liquidity requirements through cash generated from our operations. Net cash provided by operating activities during the nine months ended March 31, 2020 increased by \$498.8 million compared to the nine months ended March 31, 2019 primarily as a result of the following factors:

- An increase in collections of approximately \$1.25 billion mainly driven by higher shipments and inclusion of Orbotech during the nine months ended March 31, 2020;
- Lower merger and acquisition costs of approximately \$26.0 million; partially offset by
- An increase in accounts payable payments of approximately \$424.0 million mainly due to the inclusion of Orbotech during the nine months ended March 31, 2020;
- An increase in employee related payments of approximately \$292.0 million mainly due to the inclusion of Orbotech during the nine months ended March 31, 2020;
- An increase of debt interest payments of approximately \$60.0 million related to Senior Notes issued in March 2019 for the Orbotech acquisition and early debt redemption of 2021 Senior Notes.

Cash Flows from Investing Activities:

Net cash used in investing activities during the nine months ended March 31, 2020 was \$153.1 million compared to \$1.21 billion during the nine months ended March 31, 2019. This change was mainly due to a decrease in cash paid for business acquisitions of \$1.74 billion, partially offset by lower net sales and maturities of marketable securities of \$648.6 million.

Cash Flows from Financing Activities:

Net cash used in financing activities during the nine months ended March 31, 2020 was \$1.24 billion compared to cash provided by financing activities of \$72.1 million during the nine months ended March 31, 2019. This change was mainly due to lower net borrowing of \$1.19 billion, an increase in cash used for common stock repurchases of \$78.9 million and an increase in dividend and dividend equivalent payments of \$38.8 million.

Senior Notes:

In February 2020, March 2019 and November 2014, we issued \$750.0 million, \$1.20 billion and \$2.50 billion, respectively (each a "2020 Senior Notes", a "2019 Senior Notes", a "2014 Senior Notes", and collectively the "Senior Notes"), aggregate principal amount of senior, unsecured long-term notes. In February 2020 and October 2019, we repaid \$500.0 million and \$250.0 million of Senior Notes, respectively.

In February 2020, S&P upgraded its credit rating of the Company to "BBB+" and revised its outlook to stable, which permanently removed interest rate adjustments and the interest rate on the 2014 Senior Notes became fixed. The interest rate for each series of the 2020 Senior Notes and 2019 Senior Notes are not subject to adjustments.

In January 2020, we entered into a series of forward contracts ("2020 Rate Lock Agreements") to lock the 30-year treasury rate ("benchmark rate") on a portion of the 2020 Senior Notes. The 2020 Rate Lock Agreements had a notional amount of \$350.0 million in aggregate and matured in the same quarter. The 2020 Rate Lock Agreements were terminated on the date of the pricing of the \$750.0 million of 3.300% Senior Notes due in 2050 and we recorded the fair value of \$21.5 million as a loss within Accumulated Other Comprehensive Income (Loss) ("OCI") as of March 31, 2020, which will be amortized over the life of the debt. During the fiscal year ended June 30, 2018, we entered into a series of forward contracts (the "2018 Rate Lock Agreements") to lock the benchmark interest rate with notional amount of \$500.0 million in aggregate. In October 2014, we entered into a series of forward contracts to lock the 10-year treasury rate ("benchmark rate") on a portion of the 2014 Senior Notes with a notional amount of \$1.00 billion in aggregate. For additional details, refer to Note 16 "Derivative Instruments and Hedging Activities" of this report, and Note 8 "Debt" of the Notes to the Consolidated Financial Statements included in our Annual Report on Form 10-K for the fiscal year ended June 30, 2019.

The original discounts on the 2020 Senior Notes, the 2019 Senior Notes and the 2014 Senior Notes amounted to \$0.3 million, \$6.7 million and \$4.0 million, respectively, and are being amortized over the life of the debt. Interest is payable as follows: semi-annually on March 1 and September 1 of each year for the 2020 Senior Notes; semi-annually on March 15 and September 15 of each year for the 2019 Senior Notes; and semi-annually on May 1 and November 1 of each year for the 2014 Senior Notes. The indenture for the Senior Notes (the “Indenture”) includes covenants that limit our ability to grant liens on our facilities and enter into sale and leaseback transactions, subject to certain allowances under which certain sale and leaseback transactions are not restricted.

In certain circumstances involving a change of control followed by a downgrade of the rating of a series of Senior Notes by at least two of Moody’s, S&P and Fitch Inc., unless we have exercised our rights to redeem the Senior Notes of such series, we will be required to make an offer to repurchase all or, at the holder’s option, any part, of each holder’s Senior Notes of that series pursuant to the offer described below (the “Change of Control Offer”). In the Change of Control Offer, we will be required to offer payment in cash equal to 101% of the aggregate principal amount of Senior Notes repurchased plus accrued and unpaid interest, if any, on the Senior Notes repurchased, up to, but not including, the date of repurchase.

As of March 31, 2020, we were in compliance with all of our covenants under the Indenture associated with the Senior Notes.

Revolving Credit Facility:

In November 2017, we entered into a Credit Agreement (the “Credit Agreement”) providing for a \$750.0 million five-year unsecured Revolving Credit Facility (the “Revolving Credit Facility”), which replaced our prior Credit Facility. Subject to the terms of the Credit Agreement, the Revolving Credit Facility may be increased in an amount up to \$250.0 million in the aggregate. In November 2018, we entered into an Incremental Facility, Extension and Amendment Agreement (the “Amendment”), which amends the Credit Agreement to (a) extend the Maturity Date (the “Maturity Date”) from November 30, 2022 to November 30, 2023, (b) increase the total commitment by \$250.0 million and (c) effect certain other amendments to the Credit Agreement as set forth in the Amendment. After giving effect to the Amendment, the total commitments under the Credit Agreement are \$1.00 billion. During the second quarter of the fiscal year ending June 30, 2020, we borrowed \$250.0 million from the Revolving Credit Facility and made a principal payment of \$25.0 million within the same quarter. During the third quarter of the fiscal year ending June 30, 2020, we made a principal payment of \$200.0 million. As of March 31, 2020, we had outstanding \$25.0 million aggregate principal amount of borrowings under the Revolving Credit Facility.

We may borrow, repay and reborrow funds under the Revolving Credit Facility until the Maturity Date, at which time such Revolving Credit Facility will terminate, and all outstanding loans under such facility, together with all accrued and unpaid interest, must be repaid. We may prepay outstanding borrowings under the Revolving Credit Facility at any time without a prepayment penalty.

Borrowings under the Revolving Credit Facility will bear interest, at our option, at either: (i) the Alternative Base Rate (“ABR”) plus a spread, which ranges from 0 bps to 75 bps, or (ii) the London Interbank Offered Rate (“LIBOR”) plus a spread, which ranges from 100 bps to 175 bps. The spreads under ABR and LIBOR are subject to adjustment in conjunction with credit rating downgrades or upgrades. We are also obligated to pay an annual commitment fee on the daily undrawn balance of the Revolving Credit Facility, which ranges from 10 bps to 25 bps, subject to an adjustment in conjunction with changes to our credit rating. As of March 31, 2020, we elected to pay interest on the borrowed amount under the Revolving Credit Facility at LIBOR plus a spread of 112.5 bps, and we pay an annual commitment fee of 12.5 bps on the daily undrawn balance of the Revolving Credit Facility.

The Revolving Credit Facility requires us to maintain an interest expense coverage ratio as described in the Credit Agreement, on a quarterly basis, covering the trailing four consecutive fiscal quarters of no less than 3.50 to 1.00. In addition, we are required to maintain the maximum leverage ratio as described in the Credit Agreement, on a quarterly basis of 3.00 to 1.00, covering the trailing four consecutive fiscal quarters for each fiscal quarter, which can be increased to 4.00 to 1.00 for a period of time in connection with a material acquisition or a series of material acquisitions. As of March 31, 2020, our maximum allowed leverage ratio was 3.50 to 1.00.

We were in compliance with all covenants under the Credit Agreement as of March 31, 2020 (the interest expense coverage ratio was 13.11 to 1.00 and the leverage ratio was 1.65 to 1.00) and had \$25.0 million in borrowings under the unfunded Revolving Credit Facility. Considering our current liquidity position, short-term financial forecasts and ability to prepay the Revolving Credit Facility, if necessary, we expect to continue to be in compliance with our financial covenants at the end of our fiscal year ending June 30, 2020.

Contractual Obligations:

There have been no material changes outside the ordinary course of business to our contractual obligations as disclosed on our Annual Report Form 10-K for the fiscal year ended June 30, 2019, except for the issuance of \$750.0 million 2020 Senior Notes and early redemption of \$500.0 million Senior Notes due in 2021 during the third quarter ended June 30, 2020. For additional details regarding our debt and commitments, refer to Note 8 "Debt" and Note 15 "Commitments and Contingencies", respectively, in the Notes to the Condensed Consolidated Financial Statements. For additional details regarding our contractual obligations, refer to our Annual Report Form 10-K for the fiscal year ended June 30, 2019.

Working Capital:

Working capital was \$2.67 billion as of March 31, 2020, which represents an increase of \$118.6 million compared to our working capital of \$2.55 billion as of June 30, 2019. As of March 31, 2020, our principal sources of liquidity consisted of \$1.63 billion of cash, cash equivalents and marketable securities. Our liquidity may be affected by many factors, some of which are based on the normal ongoing operations of the business, spending for business acquisitions, and other factors such as uncertainty in the global and regional economies and the semiconductor, semiconductor related and electronic device industries. Although cash requirements will fluctuate based on the timing and extent of these factors, we believe that cash generated from operations, together with the liquidity provided by existing cash and cash equivalents balances and availability under our Revolving Credit Facility, will be sufficient to satisfy our liquidity requirements associated with working capital needs, capital expenditures, cash dividends, stock repurchases and other contractual obligations, including repayment of outstanding debt, for at least the next 12 months.

Our credit ratings as of March 31, 2020 are summarized below:

<u>Rating Agency</u>	<u>Rating</u>
Fitch	BBB+
Moody's	Baa1
Standard & Poor's	BBB+

Factors that can affect our credit ratings include changes in our operating performance, the economic environment, conditions in the semiconductor and semiconductor equipment industries, our financial position, material acquisitions and changes in our business strategy.

Off-Balance Sheet Arrangements

As of March 31, 2020, we did not have any off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of SEC Regulation S-K, that have or are reasonably likely to have a current or future effect on our financial position, changes in financial condition, revenues and expenses, results of operations, liquidity, capital expenditures, or capital resources that are material to investors. Refer to Note 15 "Commitments and Contingencies" in the Notes to the Condensed Consolidated Financial Statements for information related to indemnification obligations.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are exposed to financial market risks, including changes in interest rates, foreign currency exchange rates and marketable equity security prices. To mitigate these risks, we utilize derivative financial instruments, such as foreign currency hedges. All of the potential changes noted below are based on sensitivity analysis performed on our financial position as of March 31, 2020. Actual results may differ materially.

As of March 31, 2020, we had an investment portfolio of fixed income securities of \$709.8 million. These securities, as with all fixed income instruments, are subject to interest rate risk and will decline in value if market interest rates increase. If market interest rates were to increase immediately and uniformly by 100 bps from levels as of March 31, 2020, the fair value of the portfolio would have declined by \$4.7 million.

In February 2020, March 2019 and November 2014, we issued \$750.0 million, \$1.20 billion and \$2.50 billion, respectively, (each, a “2020 Senior Notes”, a “2019 Senior Notes”, a “2014 Senior Notes”, and collectively the “Senior Notes”) aggregate principal amount of fixed rate senior, unsecured long-term notes. The fair market value of long-term fixed interest rate notes is subject to interest rate risk. Generally, the fair market value of fixed interest rate notes will increase as interest rates fall and decrease as interest rates rise. As of March 31, 2020, the fair value and the book value of our Senior Notes were \$3.68 billion and \$3.48 billion, respectively, due in various fiscal years ranging from 2024 to 2050. The interest expense for the 2014 Senior Notes was subject to interest rate adjustments following downgrade of our credit ratings below investment grade by the credit rating agencies. In February 2020, S&P upgraded its credit rating of the Company to “BBB+” and revised its outlook to stable, which permanently removed interest rate adjustments and the interest rate on the 2014 Senior Notes became fixed. Unlike the 2014 Senior Notes, the interest rate for each series of the 2019 Senior Notes will not be subject to such adjustments.

In November 2017, we entered into a Credit Agreement (the “Credit Agreement”) for a \$750.0 million five-year unsecured Revolving Credit Facility (the “Revolving Credit Facility”), which replaced our prior Credit Agreement. Subject to the terms of the Credit Agreement, the Revolving Credit Facility may be increased in an amount up to \$250.0 million in the aggregate. In November 2018, we entered into an Incremental Facility, Extension and Amendment Agreement (the “Amendment”), which amends the Credit Agreement to (a) extend the Maturity Date (the “Maturity Date”) from November 30, 2022 to November 30, 2023, (b) increase the total commitment by \$250.0 million and (c) effect certain other amendments to the Credit Agreement as set forth in the Amendment. After giving effect to the Amendment, the total commitments under the Credit Agreement are \$1.00 billion. During the third quarter of the fiscal year ending June 30, 2020, we made a principal payment of \$200.0 million. As of March 31, 2020, we had outstanding \$25.0 million aggregate principal amount of borrowings under the Revolving Credit Facility. As of March 31, 2020, we elected to pay interest on the borrowed amount under the Revolving Credit Facility at the London Interbank Offered Rate (“LIBOR”) plus a spread. The spread ranges from 100 bps to 175 bps based on the adjusted credit rating. The fair value of the borrowings under the Revolving Credit Facility is subject to interest rate risk only to the extent of the fixed spread portion of the interest rates which does not fluctuate with change in interest rates. We are also obligated to pay an annual commitment fee of 12.5 bps on the daily undrawn balance of the Revolving Credit Facility which is subject to an adjustment in conjunction with our credit rating downgrades or upgrades. The annual commitment fee ranges from 10 bps to 25 bps on the daily undrawn balance of the Revolving Credit Facility, depending upon the then effective credit rating. As of March 31, 2020, if LIBOR-based interest rates increased by 100 bps, the change would increase our annual interest expense annually by approximately \$0.2 million as it relates to our borrowings under the Revolving Credit Facility. Additionally, as of March 31, 2020, if our credit ratings were downgraded to be below investment grade, the maximum potential increase to our annual commitment fee for the Revolving Credit Facility, using the highest range of the ranges discussed above, is estimated to be approximately \$0.8 million.

See Note 5 “Marketable Securities” in the Notes to the Condensed Consolidated Financial Statements in Part I, Item 1; Management’s Discussion and Analysis of Financial Condition and Results of Operations, “*Liquidity and Capital Resources*,” in Part I, Item 2; and Risk Factors in Part II, Item 1A of this Quarterly Report on Form 10-Q for a description of recent market events that may affect the value of the investments in our portfolio that we held as of March 31, 2020.

As of March 31, 2020, we had net forward and option contracts to sell \$124.6 million in foreign currency in order to hedge certain currency exposures (see Note 16 “Derivative Instruments and Hedging Activities” in the Notes to the Condensed Consolidated Financial Statements for additional details). If we had entered into these contracts on March 31, 2020, the U.S. dollar equivalent would have been \$115.0 million. A 10% adverse move in all currency exchange rates affecting the contracts would decrease the fair value of the contracts by \$40.9 million. However, if this occurred, the fair value of the underlying exposures hedged by the contracts would increase by a similar amount. Accordingly, we believe that, as a result of the hedging of certain of our foreign currency exposure, changes in most relevant foreign currency exchange rates should have no material impact on our results of operations or cash flows.

ITEM 4 CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures and Related CEO and CFO Certifications

Evaluation of Disclosure Controls and Procedures

We conducted an evaluation of the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the “Exchange Act”)) (“Disclosure Controls”) as of the end of the period covered by this Quarterly Report on Form 10-Q (this “Report”) required by Exchange Act Rules 13a-15(b) or 15d-15(b). The controls evaluation was conducted under the supervision and with the participation of our management, including our Chief Executive Officer (“CEO”) and Chief Financial Officer (“CFO”). Based on this evaluation, the CEO and CFO have concluded that as of the end of the period covered by this Report our Disclosure Controls were effective at a reasonable assurance level.

Attached as exhibits to this Report are certifications of the CEO and CFO, which are required in accordance with Rule 13a-14 of the Exchange Act. This Controls and Procedures section includes the information concerning the controls evaluation referred to in the certifications, and it should be read in conjunction with the certifications for a more complete understanding of the topics presented.

Definition of Disclosure Controls

Disclosure Controls are controls and procedures designed to reasonably assure that information required to be disclosed in our reports filed under the Exchange Act, such as this Report, is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms. Disclosure Controls are also designed to reasonably assure that such information is accumulated and communicated to our management, including our CEO and CFO, as appropriate to allow timely decisions regarding required disclosure. Our Disclosure Controls include components of our internal control over financial reporting, which consists of control processes designed to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements in accordance with generally accepted accounting principles in the United States. To the extent that components of our internal control over financial reporting are included within our Disclosure Controls, they are included in the scope of our annual controls evaluation.

Limitations on the Effectiveness of Controls

Our management, including our CEO and CFO, does not expect that our Disclosure Controls or internal control over financial reporting will prevent all error and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system’s objectives will be met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been detected. These inherent limitations include the realities that judgments in decision making can be faulty and that breakdowns can occur because of simple error or mistake. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving our stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting identified in connection with the evaluation required by Rule 13a-15(d) and 15d-15(d) of the Exchange Act that occurred during the most recent fiscal quarter covered by this Quarterly Report on Form 10-Q that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

The information set forth above under Note 14 “Litigation and Other Legal Matters” in the Notes to the Condensed Consolidated Financial Statements in Item 1 of Part 1 is incorporated herein by reference.

ITEM 1A. RISK FACTORS

A description of factors that could materially affect our business, financial condition or operating results is provided below.

Risks Related to the COVID-19 Pandemic

The current COVID-19 pandemic and the potential aftereffects from it could materially harm our business, financial condition and results of operations.

The COVID-19 pandemic has caused substantial global disruptions, including in the jurisdictions where we conduct business and may cause additional disruptions in the future, which are impossible to predict. Local, regional and national authorities in numerous jurisdictions have implemented a variety of measures designed to slow the spread of the virus, including social distancing guidelines, quarantines, banning of non-essential travel and requiring the cessation of non-essential activities on the premises of businesses. While the spread of the virus has begun to slow in a number of the jurisdictions where we derive a majority of our revenues, we can make no assurances that a second wave of the pandemic will not occur and materially adversely affect the operations of businesses in those jurisdictions in the future.

Some of the risks associated with the pandemic or a worsening of the pandemic in the future include:

- cancellation or reduction of routes available from common carriers, which may cause delays in our ability to deliver or service our products or receive components from suppliers necessary to manufacture or service our products;
- travel bans or the requirement to quarantine for a lengthy period after entering a jurisdiction, which may delay our ability to install the products we sell or service those products following installation;
- governmental orders requiring us, our customers or our suppliers to discontinue manufacturing products at our respective facilities for a period of time;
- reduced demand for our products, push-out of deliveries or cancellation of orders by our customers caused by a global recession resulting from the pandemic and the measures implemented by authorities to slow the spread of COVID-19;
- increased costs or inability to acquire components necessary for the manufacture of our products due to reduced availability;
- absence of liquidity at customers and suppliers caused by disruptions from the pandemic, which may hamper the ability of customers to pay for the products they purchase on time or at all, or hamper the ability of our suppliers to continue to supply components to us in a timely manner or at all; and
- loss of efficiencies due to remote working requirements for the majority of our employees.

If any of the foregoing risks occur or intensify during this pandemic, our business, financial condition and results of operations could be materially adversely affected.

Risks Associated with Our Industry

Ongoing changes in the technology industry, as well as the semiconductor industry in particular, could expose our business to significant risks.

The industries that we serve, including the semiconductor, flat panel display and printed circuit board industries, are constantly developing and changing over time. Many of the risks associated with operating in these industries are comparable to the risks faced by all technology companies, such as the uncertainty of future growth rates in the industries that we serve, pricing trends in the end-markets for consumer electronics and other products (which place a growing emphasis on our customers’ cost of ownership), changes in our customers’ capital spending patterns and, in general, an environment of constant change and development, including decreasing product and component dimensions; use of new materials; and increasingly complex device structures, applications and process steps. If we fail to appropriately adjust our cost structure and operations to adapt to any of these trends, or, with respect to technological advances, if we do not timely develop new technologies and products that successfully anticipate and address these changes, we could experience a material adverse effect on our business, financial condition and operating results.

In addition, we face a number of risks specific to ongoing changes in the semiconductor industry, as a significant majority of our sales are our process control and yield management products sold to semiconductor manufacturers. Some of the trends that our management monitors in operating our business include the following:

- the potential for reversal of the long-term historical trend of declining cost per transistor with each new generation of technological advancement within the semiconductor industry, and the adverse impact that such reversal may have upon our business;
- the increasing cost of building and operating fabrication facilities and the impact of such increases on our customers' capital equipment investment decisions;
- differing market growth rates and capital requirements for different applications, such as memory, logic and foundry;
- lower level of process control adoption by our memory customers compared to our foundry and logic customers;
- our customers' reuse of existing and installed products, which may decrease their need to purchase new products or solutions at more advanced technology nodes;
- the emergence of disruptive technologies that change the prevailing semiconductor manufacturing processes (or the economics associated with semiconductor manufacturing) and, as a result, also impact the inspection and metrology requirements associated with such processes;
- the higher design costs for the most advanced integrated circuits, which could economically constrain leading-edge manufacturing technology customers to focus their resources on only the large, technologically advanced products and applications;
- the possible introduction of integrated products by our larger competitors that offer inspection and metrology functionality in addition to managing other semiconductor manufacturing processes;
- changes in semiconductor manufacturing processes that are extremely costly for our customers to implement and, accordingly, our customers could reduce their available budgets for process control equipment by reducing inspection and metrology sampling rates for certain technologies;
- the bifurcation of the semiconductor manufacturing industry into (a) leading edge manufacturers driving continued research and development into next-generation products and technologies and (b) other manufacturers that are content with existing (including previous generation) products and technologies;
- the ever escalating cost of next-generation product development, which may result in joint development programs between us and our customers or government entities to help fund such programs that could restrict our control of, ownership of and profitability from the products and technologies developed through those programs; and
- the entry by some semiconductor manufacturers into collaboration or sharing arrangements for capacity, cost or risk with other manufacturers, as well as increased outsourcing of their manufacturing activities, and greater focus only on specific markets or applications, whether in response to adverse market conditions or other market pressures.

Any of the changes described above may negatively affect our customers' rate of investment in the capital equipment that we produce, which could result in downward pressure on our prices, customer orders, revenues and gross margins. If we do not successfully manage the risks resulting from any of these or other potential changes in our industries, our business, financial condition and operating results could be adversely impacted.

We are exposed to risks associated with a highly concentrated customer base.

Our customer base, particularly in the semiconductor industry, historically has been highly concentrated due to corporate consolidation, acquisitions and business closures. In this environment, orders from a relatively limited number of manufacturers have accounted for, and are expected to continue to account for, a substantial portion of our sales. This increasing concentration exposes our business, financial condition and operating results to a number of risks, including the following:

- The mix and type of customers, and sales to any single customer, may vary significantly from quarter to quarter and from year to year, which exposes our business and operating results to increased volatility tied to individual customers.
- New orders from our foundry customers in the past several years have constituted a significant portion of our total orders. This concentration increases the impact that future business or technology changes within the foundry industry may have on our business, financial condition and operating results.
- In a highly concentrated business environment, if a particular customer does not place an order, or if they delay or cancel orders, we may not be able to replace the business. Furthermore, because our process control and yield management products are configured to each customer's specifications, any changes, delays or cancellations of orders may result in significant, non-recoverable costs.
- As a result of this consolidation, the customers that survive the consolidation represent a greater portion of our sales and, consequently, have greater commercial negotiating leverage. Many of our large customers have more aggressive policies regarding engaging alternative, second-source suppliers for the products we offer and, in addition, may seek and, on occasion, receive pricing, payment, intellectual property-related or other commercial terms that may have an

adverse impact on our business. Any of these changes could negatively impact our prices, customer orders, revenues and gross margins.

- Certain customers have undergone significant ownership changes, created alliances with other companies, experienced management changes or have outsourced manufacturing activities, any of which may result in additional complexities in managing customer relationships and transactions. Any future change in ownership or management of our existing customers may result in similar challenges, including the possibility of the successor entity or new management deciding to select a competitor's products.
- The highly concentrated business environment also increases our exposure to risks related to the financial condition of each of our customers. For example, as a result of the challenging economic environment during fiscal year 2009, we were (and in some cases continue to be) exposed to additional risks related to the continued financial viability of certain of our customers. To the extent our customers experience liquidity issues in the future, we may be required to incur additional bad debt expense with respect to receivables owed to us by those customers. In addition, customers with liquidity issues may be forced to reduce purchases of our equipment, delay deliveries of our products, discontinue operations or may be acquired by one of our customers, and in either case such event would have the effect of further consolidating our customer base.
- Semiconductor manufacturers generally must commit significant resources to qualify, install and integrate process control and yield management equipment into a semiconductor production line. We believe that once a semiconductor manufacturer selects a particular supplier's process control and yield management equipment, the manufacturer generally relies upon that equipment for that specific production line application for an extended period of time. Accordingly, we expect it to be more difficult to sell our products to a given customer for that specific production line application and other similar production line applications if that customer initially selects a competitor's equipment. Similarly, we expect it to be challenging for a competitor to sell its products to a given customer for a specific production line application if that customer initially selects our equipment.
- Prices differ among the products we offer for different applications due to differences in features offered or manufacturing costs. If there is a shift in demand by our customers from our higher-priced to lower-priced products, our gross margin and revenue would decrease. In addition, when products are initially introduced, they tend to have higher costs because of initial development costs and lower production volumes relative to the previous product generation, which can impact gross margin.

Any of these factors could have a material adverse effect on our business, financial condition and operating results.

We operate in industries that have historically been cyclical, including the semiconductor industry. The purchasing decisions of our customers are highly dependent on the economies of both the local markets in which they are located and the condition of the industry worldwide. If we fail to respond to industry cycles, our business could be seriously harmed.

The timing, length and severity of the up-and-down cycles in the industries in which we serve are difficult to predict. The historically cyclical nature of the semiconductor industry in which we primarily operate is largely a function of our customers' capital spending patterns and need for expanded manufacturing capacity, which in turn are affected by factors such as capacity utilization, consumer demand for products, inventory levels and our customers' access to capital. Cyclical nature affects our ability to accurately predict future revenue and, in some cases, future expense levels. During down cycles in our industry, the financial results of our customers may be negatively impacted, which could result not only in a decrease in, or cancellation or delay of, orders (which are generally subject to cancellation or delay by the customer with limited or no penalty) but also a weakening of their financial condition that could impair their ability to pay for our products or our ability to recognize revenue from certain customers. Our ability to recognize revenue from a particular customer may also be negatively impacted by the customer's funding status, which could be weakened not only by adverse business conditions or inaccessibility to capital markets for any number of macroeconomic or company-specific reasons, but also by funding limitations imposed by the customer's unique organizational structure. Any of these factors could negatively impact our business, operating results and financial condition.

When cyclical fluctuations result in lower than expected revenue levels, operating results may be adversely affected and cost reduction measures may be necessary for us to remain competitive and financially sound. During periods of declining revenues, we must be in a position to adjust our cost and expense structure to prevailing market conditions and to continue to motivate and retain our key employees. If we fail to respond, or if our attempts to respond fail to accomplish our intended results, then our business could be seriously harmed. Furthermore, any workforce reductions and cost reduction actions that we adopt in response to down cycles may result in additional restructuring charges, disruptions in our operations and loss of key personnel. In addition, during periods of rapid growth, we must be able to increase manufacturing capacity and personnel to meet customer demand. We can provide no assurance that these objectives can be met in a timely manner in response to industry cycles. Each of these factors could adversely impact our operating results and financial condition.

In addition, our management typically provides quarterly forecasts for certain financial metrics, which, when made, are based on business and operational forecasts that are believed to be reasonable at the time. However, largely due to the historical cyclical nature of our business and the industries in which we operate, and the fact that business conditions in our industries can change very rapidly as part of these cycles, our actual results may vary (and have varied in the past) from forecasted results. These variations can occur for any number of reasons, including, but not limited to, unexpected changes in the volume or timing of customer orders, product shipments or product acceptance; an inability to adjust our operations rapidly enough to adapt to changing business conditions; or a different than anticipated effective tax rate. The impact on our business of delays or cancellations of customer orders may be exacerbated by the short lead times that our customers expect between order placement and product shipment. This is because order delays and cancellations may lead not only to lower revenues, but also, due to the advance work we must do in anticipation of receiving a product order to meet the expected lead times, to significant inventory write-offs and manufacturing inefficiencies that decrease our gross margin. Any of these factors could materially and adversely affect our financial results for a particular quarter and could cause those results to differ materially from financial forecasts we have previously provided. We provide these forecasts with the intent of giving investors and analysts a better understanding of management's expectations for the future, but those reviewing such forecasts must recognize that such forecasts are comprised of, and are themselves, forward-looking statements subject to the risks and uncertainties described in this Item 1A and elsewhere in this report and in our other public filings and public statements. If our operating or financial results for a particular period differ from our forecasts or the expectations of investment analysts, or if we revise our forecasts, the market price of our common stock could decline.

Risks Related to Our Business Model and Capital Structure

If we do not develop and introduce new products and technologies in a timely manner in response to changing market conditions or customer requirements, our business could be seriously harmed.

Success in the industries in which we serve, including the semiconductor, flat panel display and printed circuit board industries depends, in part, on continual improvement of existing technologies and rapid innovation of new solutions. The primary driver of technology advancement in the semiconductor industry has been to shrink the lithography that prints the circuit design on semiconductor chips. That driver appears to be slowing, which may cause semiconductor manufacturers to delay investments in equipment, investigate more complex device architectures, use new materials and develop innovative fabrication processes. These and other evolving customer plans and needs require us to respond with continued development programs and cut back or discontinue older programs, which may no longer have industry-wide support. Technical innovations are inherently complex and require long development cycles and appropriate staffing of highly qualified employees. Our competitive advantage and future business success depend on our ability to accurately predict evolving industry standards, develop and introduce new products and solutions that successfully address changing customer needs, win market acceptance of these new products and solutions, and manufacture these new products in a timely and cost-effective manner. Our failure to accurately predict evolving industry standards and develop as well as offer competitive technology solutions in a timely manner with cost-effective products could result in loss of market share, unanticipated costs, and inventory obsolescence, which would adversely impact our business, operating results and financial condition.

We must continue to make significant investments in research and development in order to enhance the performance, features and functionality of our products, to keep pace with competitive products and to satisfy customer demands. Substantial research and development costs typically are incurred before we confirm the technical feasibility and commercial viability of a new product, and not all development activities result in commercially viable products. There can be no assurance that revenues from future products or product enhancements will be sufficient to recover the development costs associated with such products or enhancements. In addition, we cannot be sure that these products or enhancements will receive market acceptance or that we will be able to sell these products at prices that are favorable to us. Our business will be seriously harmed if we are unable to sell our products at favorable prices or if the market in which we operate does not accept our products.

In addition, the complexity of our products exposes us to other risks. We regularly recognize revenue from a sale upon shipment of the applicable product to the customer (even before receiving the customer's formal acceptance of that product) in certain situations, including sales of products for which installation is considered perfunctory, transactions in which the product is sold to an independent distributor and we have no installation obligations, and sales of products where we have previously delivered the same product to the same customer location and that prior delivery has been accepted. However, our products are very technologically complex and rely on the interconnection of numerous subcomponents (all of which must perform to their respective specifications), so it is conceivable that a product for which we recognize revenue upon shipment may ultimately fail to meet the overall product's required specifications. In such a situation, the customer may be entitled to certain remedies, which could materially and adversely affect our operating results for various periods and, as a result, our stock price.

We derive a substantial percentage of our revenues from sales of inspection products. As a result, any delay or reduction of sales of these products could have a material adverse effect on our business, financial condition and operating results. The continued customer demand for these products and the development, introduction and market acceptance of new products and technologies are critical to our future success.

Our success is dependent in part on our technology and other proprietary rights. If we are unable to maintain our lead or protect our proprietary technology, we may lose valuable assets.

Our success is dependent in part on our technology and other proprietary rights. We own various United States and international patents and have additional pending patent applications relating to some of our products and technologies. The process of seeking patent protection is lengthy and expensive, and we cannot be certain that pending or future applications will actually result in issued patents or that issued patents will be of sufficient scope or strength to provide meaningful protection or commercial advantage to us. Other companies and individuals, including our larger competitors, may develop technologies and obtain patents relating to our business that are similar or superior to our technology or may design around the patents we own, which may adversely affect our business. In addition, we at times engage in collaborative technology development efforts with our customers and suppliers, and these collaborations may constitute a key component of certain of our ongoing technology and product research and development projects. The termination of any such collaboration, or delays caused by disputes or other unanticipated challenges that may arise in connection with any such collaboration, could significantly impair our research and development efforts, which could have a material adverse impact on our business and operations.

We also maintain trademarks on certain of our products and services and claim copyright protection for certain proprietary software and documentation. However, we can give no assurance that our trademarks and copyrights will be upheld or successfully deter infringement by third parties.

While patent, copyright and trademark protection for our intellectual property is important, we believe our future success in highly dynamic markets is most dependent upon the technical competence and creative skills of our personnel. We attempt to protect our trade secrets and other proprietary information through confidentiality and other agreements with our customers, suppliers, employees and consultants and through other security measures. We also maintain exclusive and non-exclusive licenses with third parties for strategic technology used in certain products. However, these employees, consultants and third parties may breach these agreements, and we may not have adequate remedies for wrongdoing. In addition, the laws of certain territories in which we develop, manufacture or sell our products may not protect our intellectual property rights to the same extent as do the laws of the United States. In any event, the extent to which we can protect our trade secrets through the use of confidentiality agreements is limited, and our success will depend to a significant extent on our ability to innovate ahead of our competitors.

Our future performance depends, in part, upon our ability to continue to compete successfully worldwide.

Our industry includes large manufacturers with substantial resources to support customers worldwide. Some of our competitors are diversified companies with greater financial resources and more extensive research, engineering, manufacturing, marketing, and customer service and support capabilities than we possess. We face competition from companies whose strategy is to provide a broad array of products and services, some of which compete with the products and services that we offer. These competitors may bundle their products in a manner that may discourage customers from purchasing our products, including pricing such competitive tools significantly below our product offerings. In addition, we face competition from smaller emerging companies whose strategy is to provide a portion of the products and services that we offer, using innovative technology to sell products into specialized markets. The strength of our competitive positions in many of our existing markets is largely due to our leading technology, which is the result of continuing significant investments in product research and development. However, we may enter new markets, whether through acquisitions or new internal product development, in which competition is based primarily on product pricing, not technological superiority. Further, some new growth markets that emerge may not require leading technologies. Loss of competitive position in any of the markets we serve, or an inability to sell our products on favorable commercial terms in new markets we may enter, could negatively affect our prices, customer orders, revenues, gross margins and market share, any of which would negatively affect our operating results and financial condition.

Our business would be harmed if we do not receive parts sufficient in number and performance to meet our production requirements and product specifications in a timely and cost-effective manner.

We use a wide range of materials in the production of our products, including custom electronic and mechanical components, and we use numerous suppliers to supply these materials. We generally do not have guaranteed supply arrangements with our suppliers. Because of the variability and uniqueness of customers' orders, we do not maintain an extensive inventory of materials for manufacturing. Through our business interruption planning, we seek to minimize the risk of production and service interruptions and/or shortages of key parts by, among other things, monitoring the financial stability of key suppliers, identifying (but not necessarily qualifying) possible alternative suppliers and maintaining appropriate inventories of key parts. Although we make reasonable efforts to ensure that parts are available from multiple suppliers, certain key parts are available only from a single supplier or a limited group of suppliers. Also, key parts we obtain from some of our suppliers incorporate the suppliers' proprietary intellectual property; in those cases, we are increasingly reliant on third parties for high-performance, high-technology components, which reduces the amount of control we have over the availability and protection of the technology and intellectual property that is used in our products. In addition, if certain of our key suppliers experience liquidity issues and are forced to discontinue operations, which is a heightened risk especially during economic downturns, it could affect their ability to deliver parts and could result in delays for our products. Similarly, especially with respect to suppliers of high-technology components, our suppliers themselves have increasingly complex supply chains, and delays or disruptions at any stage of their supply chains may prevent us from obtaining parts in a timely manner and result in delays for our products. Our operating results and business may be adversely impacted if we are unable to obtain parts to meet our production requirements and product specifications, or if we are only able to do so on unfavorable terms. Furthermore, a supplier may discontinue production of a particular part for any number of reasons, including the supplier's financial condition or business operational decisions, which would require us to purchase, in a single transaction, a large number of such discontinued parts in order to ensure that a continuous supply of such parts remains available to our customers. Such "end-of-life" parts purchases could result in significant expenditures by us in a particular period, and ultimately any unused parts may result in a significant inventory write-off, either of which could have an adverse impact on our financial condition and results of operations for the applicable periods.

If we fail to operate our business in accordance with our business plan, our operating results, business and stock price may be significantly and adversely impacted.

We attempt to operate our business in accordance with a business plan that is established annually, revised frequently (generally quarterly), and reviewed by management even more frequently (at least monthly). Our business plan is developed based on a number of factors, many of which require estimates and assumptions, such as our expectations of the economic environment, future business levels, our customers' willingness and ability to place orders, lead-times, and future revenue and cash flow. Our budgeted operating expenses, for example, are based in part on our future revenue expectations. However, our ability to achieve our anticipated revenue levels is a function of numerous factors, including the volatile and historically cyclical nature of our primary industry, customer order cancellations, macroeconomic changes, operational matters regarding particular agreements, our ability to manage customer deliveries, the availability of resources for the installation of our products, delays or accelerations by customers in taking deliveries and the acceptance of our products (for products where customer acceptance is required before we can recognize revenue from such sales), our ability to operate our business and sales processes effectively, and a number of the other risk factors set forth in this Item 1A.

Because our expenses are in most cases relatively fixed in the short term, any revenue shortfall below expectations could have an immediate and significant adverse effect on our operating results. Similarly, if we fail to manage our expenses effectively or otherwise fail to maintain rigorous cost controls, we could experience greater than anticipated expenses during an operating period, which would also negatively affect our results of operations. If we fail to operate our business consistent with our business plan, our operating results in any period may be significantly and adversely impacted. Such an outcome could cause customers, suppliers or investors to view us as less stable, or could cause us to fail to meet financial analysts' revenue or earnings estimates, any of which could have an adverse impact on our stock price.

In addition, our management is constantly striving to balance the requirements and demands of our customers with the availability of resources, the need to manage our operating model and other factors. In furtherance of those efforts, we often must exercise discretion and judgment as to the timing and prioritization of manufacturing, deliveries, installations and payment scheduling. Any such decisions may impact our ability to recognize revenue, including the fiscal period during which such revenue may be recognized, with respect to such products, which could have a material adverse effect on our business, results of operations or stock price.

We have a leveraged capital structure.

As of April 30, 2020 we had \$3.68 billion aggregate principal amount of outstanding indebtedness, consisting of \$3.45 billion aggregate principal amount of senior, unsecured long-term notes and \$225.0 million borrowed under our Revolving Credit Facility, which includes an additional \$200.0 million borrowed in April 2020 and an additional \$775.0 million in unfunded commitments. We may incur additional indebtedness in the future by accessing the unfunded portion of our Revolving Credit Facility and/or entering into new financing arrangements. For example, at the same time we announced our intention to acquire Orbotech, we also announced a new stock repurchase program authorizing the repurchase up to \$2.00 billion of our common stock, a large portion of which would be financed with new indebtedness. Our ability to pay interest and repay the principal of our current indebtedness is dependent upon our ability to manage our business operations, our credit rating, the ongoing interest rate environment and the other risk factors discussed in this section. There can be no assurance that we will be able to manage any of these risks successfully.

In certain circumstances involving a change of control followed by a downgrade of the rating of a series of notes by at least two of Moody's, S&P and Fitch Inc., unless we have exercised our right to redeem the notes of such series, we will be required to make an offer to repurchase all or, at the holder's option, any part, of each holder's notes of that series pursuant to the offer described below (the "Change of Control Offer"). In the Change of Control Offer, we will be required to offer payment in cash equal to 101% of the aggregate principal amount of notes repurchased plus accrued and unpaid interest, if any, on the notes repurchased, up to, but not including, the date of repurchase. We cannot make any assurance that we will have sufficient financial resources at such time or will be able to arrange financing to pay the repurchase price of that series of notes. Our ability to repurchase that series of notes in such event may be limited by law, by the indenture associated with that series of notes, or by the terms of other agreements to which we may be party at such time. If we fail to repurchase that series of notes as required by the terms of such notes, it would constitute an event of default under the indenture governing that series of notes which, in turn, may also constitute an event of default under other of our obligations.

Borrowings under our Revolving Credit Facility bear interest at a floating rate, and an increase in interest rates would require us to pay additional interest on any borrowings, which may have an adverse effect on the value and liquidity of our debt and the market price of our common stock could decline. The interest rate under our Revolving Credit Facility is also subject to an adjustment in conjunction with our credit rating downgrades or upgrades. Additionally, under our Revolving Credit Facility,

we are required to comply with affirmative and negative covenants, which include the maintenance of certain financial ratios, the details of which can be found in Note 8 “Debt” in the Notes to the Condensed Consolidated Financial Statements.

If we fail to comply with these covenants, we will be in default and our borrowings will become immediately due and payable. There can be no assurance that we will have sufficient financial resources or we will be able to arrange financing to repay our borrowings at such time. In addition, certain of our domestic subsidiaries are required to guarantee our borrowings under our Revolving Credit Facility. In the event that we default on our borrowings, these domestic subsidiaries shall be liable for our borrowings, which could disrupt our operations and result in a material adverse impact on our business, financial condition or stock price.

Our leveraged capital structure may adversely affect our financial condition, results of operations and net income per share.

Our issuance and maintenance of higher levels of indebtedness could have adverse consequences including, but not limited to:

- a negative impact on our ability to satisfy our future obligations;
- an increase in the portion of our cash flows that may have to be dedicated to increased interest and principal payments that may not be available for operations, working capital, capital expenditures, acquisitions, investments, dividends, stock repurchases, general corporate or other purposes;
- an impairment of our ability to obtain additional financing in the future; and
- obligations to comply with restrictive and financial covenants as noted in the above risk factor and Note 8, “Debt,” to our Condensed Consolidated Financial Statements.

Our ability to satisfy our future expenses as well as our new debt obligations will depend on our future performance, which will be affected by financial, business, economic, regulatory and other factors. Furthermore, our future operations may not generate sufficient cash flows to enable us to meet our future expenses and service our new debt obligations, which may impact our ability to manage our capital structure to preserve and maintain our investment grade rating. If our future operations do not generate sufficient cash flows, we may need to access the money available for borrowing under our Revolving Credit Facility or enter into new financing arrangements to obtain necessary funds. If we determine it is necessary to seek additional funding for any reason, we may not be able to obtain such funding or, if funding is available, we may not be able to obtain it on acceptable terms. Any borrowings under our Revolving Credit Facility will place further pressure on us to comply with the financial covenants. If we fail to make a payment associated with our debt obligations, we could be in default on such debt, and such a default could cause us to be in default on our other obligations.

There can be no assurance that we will continue to declare cash dividends at all or in any particular amounts.

Our Board of Directors first instituted a quarterly dividend during the fiscal year ended June 30, 2005. Since that time, we have announced a number of increases in the amount of our quarterly dividend level as well as payment of a special cash dividend that was declared and substantially paid in the second quarter of our fiscal year ended June 30, 2015. We intend to continue to pay quarterly dividends subject to capital availability and periodic determinations by our Board of Directors that cash dividends are in the best interest of our stockholders and are in compliance with all laws and agreements applicable to the declaration and payment of cash dividends by us. Future dividends may be affected by, among other factors: our views on potential future capital requirements for investments in acquisitions and the funding of our research and development; legal risks; stock repurchase programs; changes in federal and state income tax laws or corporate laws; changes to our business model; and our increased interest and principal payments required by our outstanding indebtedness and any additional indebtedness that we may incur in the future. Our dividend payments may change from time to time, and we cannot provide assurance that we will continue to declare dividends at all or in any particular amounts. A reduction in our dividend payments could have a negative effect on our stock price.

We are exposed to risks related to our commercial terms and conditions, including our indemnification of third parties, as well as the performance of our products.

Although our standard commercial documentation sets forth the terms and conditions that we intend to apply to commercial transactions with our business partners, counterparties to such transactions may not explicitly agree to our terms and conditions. In situations where we engage in business with a third party without an explicit master agreement regarding the applicable terms and conditions, or where the commercial documentation applicable to the transaction is subject to varying interpretations, we may have disputes with those third parties regarding the applicable terms and conditions of our business relationship with them. Such disputes could lead to a deterioration of our commercial relationship with those parties, costly and time-consuming litigation, or additional concessions or obligations being offered by us to resolve such disputes, or could

impact our revenue or cost recognition. Any of these outcomes could materially and adversely affect our business, financial condition and results of operations.

In addition, in our commercial agreements, from time to time in the normal course of business we indemnify third parties with whom we enter into contractual relationships, including customers, suppliers and lessors, with respect to certain matters. We have agreed, under certain conditions, to hold these third parties harmless against specified losses, such as those arising from a breach of representations or covenants, other third party claims that our products when used for their intended purposes infringe the intellectual property rights of such other third parties, or other claims made against certain parties. We may be compelled to enter into or accrue for probable settlements of alleged indemnification obligations, or we may be subject to potential liability arising from our customers' involvements in legal disputes. In addition, notwithstanding the provisions related to limitations on our liability that we seek to include in our business agreements, the counterparties to such agreements may dispute our interpretation or application of such provisions, and a court of law may not interpret or apply such provisions in our favor, any of which could result in an obligation for us to pay material damages to third parties and engage in costly legal proceedings. It is difficult to determine the maximum potential amount of liability under any indemnification obligations, whether or not asserted, due to our limited history of prior indemnification claims and the unique facts and circumstances that are likely to be involved in any particular claim. Our business, financial condition and results of operations in a reported fiscal period could be materially and adversely affected if we expend significant amounts in defending or settling any purported claims, regardless of their merit or outcomes.

We are also exposed to potential costs associated with unexpected product performance issues. Our products and production processes are extremely complex and thus could contain unexpected product defects, especially when products are first introduced. Unexpected product performance issues could result in significant costs being incurred by us, including increased service or warranty costs, providing product replacements for (or modifications to) defective products, litigation related to defective products, reimbursement for damages caused by our products, product recalls, or product write-offs or disposal costs. These costs could be substantial and could have an adverse impact upon our business, financial condition and operating results. In addition, our reputation with our customers could be damaged as a result of such product defects, which could reduce demand for our products and negatively impact our business.

Furthermore, we occasionally enter into volume purchase agreements with our larger customers, and these agreements may provide for certain volume purchase incentives, such as credits toward future purchases. We believe that these arrangements are beneficial to our long-term business, as they are designed to encourage our customers to purchase higher volumes of our products. However, these arrangements could require us to recognize a reduced level of revenue for the products that are initially purchased, to account for the potential future credits or other volume purchase incentives. Our volume purchase agreements require significant estimation for the amounts to be accrued depending upon the estimate of volume of future purchases. As such, we are required to update our estimates of the accruals on a periodic basis. Until the earnings process is complete, our estimates could differ in comparison to actual results. As a result, these volume purchase arrangements, while expected to be beneficial to our business over time, could materially and adversely affect our results of operations in near-term periods, including the revenue we can recognize on product sales and therefore our gross margins.

In addition, we may in limited circumstances enter into agreements that contain customer-specific commitments on pricing, tool reliability, spare parts stocking levels, response time and other commitments. Furthermore, we may give these customers limited audit or inspection rights to enable them to confirm that we are complying with these commitments. If a customer elects to exercise its audit or inspection rights, we may be required to expend significant resources to support the audit or inspection, as well as to defend or settle any dispute with a customer that could potentially arise out of such audit or inspection. To date, we have made no significant accruals in our Condensed Consolidated Financial Statements for this contingency. While we have not in the past incurred significant expenses for resolving disputes regarding these types of commitments, we cannot make any assurance that we will not incur any such liabilities in the future. Our business, financial condition and results of operations in a reported fiscal period could be materially and adversely affected if we expend significant amounts in supporting an audit or inspection, or defending or settling any purported claims, regardless of their merit or outcomes.

There are risks associated with our receipt of government funding for research and development.

We are exposed to additional risks related to our receipt of external funding for certain strategic development programs from various governments and government agencies, both domestically and internationally. Governments and government agencies typically have the right to terminate funding programs at any time in their sole discretion, or a project may be terminated by mutual agreement if the parties determine that the project's goals or milestones are not being achieved, so there is no assurance that these sources of external funding will continue to be available to us in the future. In addition, under the terms of these government grants, the applicable granting agency typically has the right to audit the costs that we incur, directly and indirectly, in connection with such programs. Any such audit could result in modifications to, or even termination of, the

applicable government funding program. For example, if an audit were to identify any costs as being improperly allocated to the applicable program, those costs would not be reimbursed, and any such costs that had already been reimbursed would have to be refunded. We do not know the outcome of any future audits. Any adverse finding resulting from any such audit could lead to penalties (financial or otherwise), termination of funding programs, suspension of payments, fines and suspension or prohibition from receiving future government funding from the applicable government or government agency, any of which could adversely impact our operating results, financial condition and ability to operate our business.

We have recorded significant restructuring, inventory write-off and asset impairment charges and may do so again in the future, which could have a material negative impact on our results of operations.

Historically, we have recorded material restructuring charges related to our prior global workforce reductions, large excess inventory write-offs, and material impairment charges related to our goodwill and purchased intangible assets. Workforce changes can also temporarily reduce workforce productivity, which could be disruptive to our business and adversely affect our results of operations. In addition, we may not achieve or sustain the expected cost savings or other benefits of our restructuring plans, or do so within the expected time frame. If we again restructure our organization and business processes, implement additional cost reduction actions or discontinue certain business operations, we may take additional, potentially material, restructuring charges related to, among other things, employee terminations or exit costs. We may also be required to write-off additional inventory if our product build plans or usage of service inventory decline. Also, as our lead times from suppliers increase (due to the increasing complexity of the parts and components they provide) and the lead times demanded by our customers decrease (due to the time pressures they face when introducing new products or technology or bringing new facilities into production), we may be compelled to increase our commitments, and therefore our risk exposure, to inventory purchases to meet our customers' demands in a timely manner, and that inventory may need to be written-off if demand for the underlying product declines for any reason. Such additional write-offs could result in material charges.

We have recorded material charges related to the impairment of our goodwill and purchased intangible assets. Goodwill represents the excess of costs over the net fair value of net assets acquired in a business combination. Goodwill is not amortized, but is instead tested for impairment at least annually in accordance with authoritative guidance for goodwill. Purchased intangible assets with estimable useful lives are amortized over their respective estimated useful lives based on economic benefit if known or using the straight-line method, and are reviewed for impairment in accordance with authoritative guidance for long-lived assets. The valuation of goodwill and intangible assets requires assumptions and estimates of many critical factors, including but not limited to declines in our operating cash flows, declines in our stock price or market capitalization, declines in our market share, and declines in revenues or profits. A substantial decline in our stock price, or any other adverse change in market conditions, particularly if such change has the effect of changing one of the critical assumptions or estimates we previously used to calculate the value of our goodwill or intangible assets (and, as applicable, the amount of any previous impairment charge), could result in a change to the estimation of fair value that could result in an additional impairment charge.

Any such additional material charges, whether related to restructuring or goodwill or purchased intangible asset impairment, may have a material negative impact on our operating results and related financial statements.

We are exposed to risks related to our financial arrangements with respect to receivables factoring and banking arrangements.

We enter into factoring arrangements with financial institutions to sell certain of our trade receivables and promissory notes from customers without recourse. In addition, we maintain bank accounts with several domestic and foreign financial institutions, any of which may prove not to be financially viable. If we were to stop entering into these factoring arrangements, our operating results, financial condition and cash flows could be adversely impacted by delays or failures in collecting trade receivables. However, by entering into these arrangements, and by engaging these financial institutions for banking services, we are exposed to additional risks. If any of these financial institutions experiences financial difficulties or is otherwise unable to honor the terms of our factoring or deposit arrangements, we may experience material financial losses due to the failure of such arrangements or a lack of access to our funds, any of which could have an adverse impact upon our operating results, financial condition and cash flows.

We are subject to the risks of additional government actions in the event we were to breach the terms of any settlement arrangement into which we have entered.

In connection with the settlement of certain government actions and other legal proceedings related to our historical stock option practices, we have explicitly agreed as a condition to such settlements that we will comply with certain laws, such as the books and records provisions of the federal securities laws. If we were to violate any such law, we might not only be subject to the significant penalties applicable to such violation, but our past settlements may also be impacted by such violation, which could give rise to additional government actions or other legal proceedings. Any such additional actions or proceedings may

require us to expend significant management time and incur significant accounting, legal and other expenses, and may divert attention and resources from the operation of our business. These expenditures and diversions, as well as an adverse resolution of any such action or proceeding, could have a material adverse effect on our business, financial condition and results of operations.

General Commercial, Operational, Financial and Regulatory Risks

A majority of our annual revenues are derived from outside the United States, and we maintain significant operations outside the United States. We are exposed to numerous risks as a result of the international nature of our business and operations.

A majority of our annual revenues are derived from outside the United States, and we maintain significant operations outside the United States. We expect that these conditions will continue in the foreseeable future. Managing global operations and sites located throughout the world presents a number of challenges, including but not limited to:

- managing cultural diversity and organizational alignment;
- exposure to the unique characteristics of each region in the global market, which can cause capital equipment investment patterns to vary significantly from period to period;
- periodic local or international economic downturns;
- potential adverse tax consequences, including withholding tax rules that may limit the repatriation of our earnings, and higher effective income tax rates in foreign countries where we do business;
- compliance with customs regulations in the countries in which we do business;
- existing and potentially new tariffs or other trade restrictions and barriers (including those applied to our products, spare parts and services or to parts and supplies that we purchase);
- political instability, natural disasters, legal or regulatory changes, acts of war or terrorism in regions where we have operations or where we do business;
- fluctuations in interest and currency exchange rates may adversely impact our ability to compete on price with local providers or the value of revenues we generate from our international business. Although we attempt to manage some of our near-term currency risks through the use of hedging instruments, there can be no assurance that such efforts will be adequate;
- receiving prepayments for certain of our products and services sold in certain jurisdictions. These prepayments increase our cash flows for the quarter in which they are received. If our practice of requiring prepayments in those jurisdictions changes or deteriorates, our cash flows would be harmed.
- longer payment cycles and difficulties in collecting accounts receivable outside of the United States;
- difficulties in managing foreign distributors (including monitoring and ensuring our distributors' compliance with applicable laws); and
- inadequate protection or enforcement of our intellectual property and other legal rights in foreign jurisdictions.

In addition, government controls, either by the United States or other countries, that restrict our business overseas or restrict our ability to import or export our products and services or increase the cost of our operations through the imposition of tariffs, new controls, outright bans, or otherwise, could harm our business. For example, the United States Department of Commerce added Fujian Jinhua Integrated Circuit Company, Ltd. ("JHICC") and certain Huawei entities to the U.S. Entity List, restricting our ability to provide products and services to JHICC and listed Huawei entities without a license. In addition, on April 28, 2020, the U.S. Department of Commerce published new regulations that would impose certain additional licensing requirements to ship semiconductor capital equipment to customers in China that have operations that could contribute to military end uses. It is unclear whether these new rules will be interpreted in a way to require an export license for any of our existing customers or products or whether a license would be granted if required. Similar actions by the U.S. government or another country could impact our ability to provide our products and services to existing and potential customers.

Any of the factors above could have a significant negative impact on our business and results of operations.

We are exposed to risks associated with a weakening in the condition of the financial markets and the global economy.

Demand for our products is ultimately driven by the global demand for electronic devices by consumers and businesses. Economic uncertainty frequently leads to reduced consumer and business spending, which caused our customers to decrease, cancel or delay their equipment and service orders from us in the economic slowdown during fiscal year 2009. In addition, the tightening of credit markets and concerns regarding the availability of credit that accompanied that slowdown made it more difficult for our customers to raise capital, whether debt or equity, to finance their purchases of capital equipment, including the products we sell. Reduced demand, combined with delays in our customers' ability to obtain financing (or the unavailability of such financing), has at times in the past adversely affected our product and service sales and revenues and therefore has harmed

our business and operating results, and our operating results and financial condition may again be adversely impacted if economic conditions decline from their current levels.

In addition, a decline in the condition of the global financial markets could adversely impact the market values or liquidity of our investments. Our investment portfolio includes corporate and government securities, money market funds and other types of debt and equity investments. Although we believe our portfolio continues to be comprised of sound investments due to the quality and (where applicable) credit ratings, a decline in the capital and financial markets would adversely impact the market value of our investments and their liquidity. If the market value of such investments were to decline, or if we were to have to sell some of our investments under illiquid market conditions, we may be required to recognize an impairment charge on such investments or a loss on such sales, either of which could have an adverse effect on our financial condition and operating results.

If we are unable to timely and appropriately adapt to changes resulting from difficult macroeconomic conditions, our business, financial condition or results of operations may be materially and adversely affected.

We might be involved in claims or disputes related to intellectual property or other confidential information that may be costly to resolve, prevent us from selling or using the challenged technology and seriously harm our operating results and financial condition.

As is typical in the industries in which we serve, from time to time we have received communications from other parties asserting the existence of patent rights, copyrights, trademark rights or other intellectual property rights which they believe cover certain of our products, processes, technologies or information. In addition, we occasionally receive notification from customers who believe that we owe them indemnification or other obligations related to intellectual property claims made against such customers by third parties. With respect to intellectual property infringement disputes, our customary practice is to evaluate such infringement assertions and to consider whether to seek licenses where appropriate. However, there can be no assurance that licenses can be obtained or, if obtained, will be on acceptable terms or that costly litigation or other administrative proceedings will not occur. The inability to obtain necessary licenses or other rights on reasonable terms could seriously harm our results of operations and financial condition. Furthermore, we may potentially be subject to claims by customers, suppliers or other business partners, or by governmental law enforcement agencies, related to our receipt, distribution and/or use of third-party intellectual property or confidential information. Legal proceedings and claims, regardless of their merit, and associated internal investigations with respect to intellectual property or confidential information disputes are often expensive to prosecute, defend or conduct; may divert management's attention and other company resources; and/or may result in restrictions on our ability to sell our products, settlements on significantly adverse terms or adverse judgments for damages, injunctive relief, penalties and fines, any of which could have a significant negative effect on our business, results of operations and financial condition. There can be no assurance regarding the outcome of future legal proceedings, claims or investigations. The instigation of legal proceedings or claims, our inability to favorably resolve or settle such proceedings or claims, or the determination of any adverse findings against us or any of our employees in connection with such proceedings or claims could materially and adversely affect our business, financial condition and results of operations, as well as our business reputation.

We are exposed to various risks related to the legal, regulatory and tax environments in which we perform our operations and conduct our business.

We are subject to various risks related to compliance with new, existing, different, inconsistent or even conflicting laws, rules and regulations enacted by legislative bodies and/or regulatory agencies in the countries in which we operate and with which we must comply, including environmental, safety, antitrust, anti-corruption/anti-bribery, unclaimed property and export control regulations. Our failure or inability to comply with existing or future laws, rules or regulations, or changes to existing laws, rules or regulations (including changes that result in inconsistent or conflicting laws, rules or regulations), in the countries in which we operate could result in violations of contractual or regulatory obligations that may adversely affect our operating results, financial condition and ability to conduct our business. From time to time, we may receive inquiries or audit notices from governmental or regulatory bodies, or we may participate in voluntary disclosure programs, related to legal, regulatory or tax compliance matters, and these inquiries, notices or programs may result in significant financial cost (including investigation expenses, defense costs, assessments and penalties), reputational harm and other consequences that could materially and adversely affect our operating results and financial condition.

Our properties and many aspects of our business operations are subject to various domestic and international environmental laws and regulations, including those that control and restrict the use, transportation, emission, discharge, storage and disposal of certain chemicals, gases and other substances. Any failure to comply with applicable environmental laws, regulations or requirements may subject us to a range of consequences, including fines, suspension of certain of our business activities, limitations on our ability to sell our products, obligations to remediate environmental contamination, and

criminal and civil liabilities or other sanctions. In addition, changes in environmental regulations (including regulations relating to climate change and greenhouse gas emissions) could require us to invest in potentially costly pollution control equipment, alter our manufacturing processes or use substitute (potentially more expensive and/or rarer) materials. Further, we use hazardous and other regulated materials that subject us to risks of strict liability for damages caused by any release, regardless of fault. We also face increasing complexity in our manufacturing, product design and procurement operations as we adjust to new and prospective requirements relating to the materials composition of our products, including restrictions on lead and other substances and requirements to track the sources of certain metals and other materials. The cost of complying, or of failing to comply, with these and other regulatory restrictions or contractual obligations could adversely affect our operating results, financial condition and ability to conduct our business.

In addition, we may from time to time be involved in legal proceedings or claims regarding employment, immigration, contracts, product performance, product liability, antitrust, environmental regulations, securities, unfair competition and other matters. These legal proceedings and claims, regardless of their merit, may be time-consuming and expensive to prosecute or defend, divert management's attention and resources, and/or inhibit our ability to sell our products. There can be no assurance regarding the outcome of current or future legal proceedings or claims, which could adversely affect our operating results, financial condition and ability to operate our business.

We depend on key personnel to manage our business effectively, and if we are unable to attract, retain and motivate our key employees, our sales and product development could be harmed.

Our employees are vital to our success, and our key management, engineering and other employees are difficult to replace. We generally do not have employment contracts with our key employees. Further, we do not maintain key person life insurance on any of our employees. The expansion of high technology companies worldwide has increased demand and competition for qualified personnel. If we are unable to attract and retain key personnel, or if we are not able to attract, assimilate and retain additional highly qualified employees to meet our current and future needs, our business and operations could be harmed.

We outsource a number of services to third-party service providers, which decreases our control over the performance of these functions. Disruptions or delays at our third-party service providers could adversely impact our operations.

We outsource a number of services, including our transportation, information systems management and logistics management of spare parts and certain accounting and procurement functions, to domestic and overseas third-party service providers. While outsourcing arrangements may lower our cost of operations, they also reduce our direct control over the services rendered. It is uncertain what effect such diminished control will have on the quality or quantity of products delivered or services rendered, on our ability to quickly respond to changing market conditions, or on our ability to ensure compliance with all applicable domestic and foreign laws and regulations. In addition, many of these outsourced service providers, including certain hosted software applications that we use for confidential data storage, employ cloud computing technology for such storage. These providers' cloud computing systems may be susceptible to "cyber incidents," such as intentional cyber attacks aimed at theft of sensitive data or inadvertent cyber-security compromises, which are outside of our control. If we do not effectively develop and manage our outsourcing strategies, if required export and other governmental approvals are not timely obtained, if our third-party service providers do not perform as anticipated, or do not adequately protect our data from cyber-related security breaches, or if there are delays or difficulties in enhancing business processes, we may experience operational difficulties (such as limitations on our ability to ship products), increased costs, manufacturing or service interruptions or delays, loss of intellectual property rights or other sensitive data, quality and compliance issues, and challenges in managing our product inventory or recording and reporting financial and management information, any of which could materially and adversely affect our business, financial condition and results of operations.

We are exposed to risks related to cybersecurity threats and cyber incidents.

In the conduct of our business, we collect, use, transmit and store data on information systems. This data includes confidential information, transactional information and intellectual property belonging to us, our customers and our business partners, as well as personally-identifiable information of individuals. We allocate significant resources to network security, data encryption and other measures to protect our information systems and data from unauthorized access or misuse. Despite our ongoing efforts to enhance our network security measures, our information systems are susceptible to computer viruses, cyber-related security breaches and similar disruptions from unauthorized intrusions, tampering, misuse, criminal acts, including phishing, or other events or developments that we may be unable to anticipate or fail to mitigate and are subject to the inherent vulnerabilities of network security measures. We have experienced cyber-related attacks in the past, and may experience cyber-related attacks in the future. Our security measures may also be breached due to employee errors, malfeasance, or otherwise. Third parties may also attempt to influence employees, users, suppliers or customers to disclose sensitive information in order to gain access to our, our customers' or business partners' data. Because the techniques used to

obtain unauthorized access to the information systems change frequently, and may not be recognized until launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures.

Any of such occurrences could result in disruptions to our operations; misappropriation, corruption or theft of confidential information, including intellectual property and other critical data, of KLA, our customers and other business partners; misappropriation of funds and company assets; reduced value of our investments in research, development and engineering; litigation with, or payment of damages to, third parties; reputational damage; costs to comply with regulatory inquiries or actions; data privacy issues; costs to rebuild our internal information systems; and increased cybersecurity protection and remediation costs.

We carry insurance that provides some protection against the potential losses arising from a cybersecurity incident but it will not likely cover all such losses, and the losses that it does not cover may be significant.

We rely upon certain critical information systems for our daily business operations. Our inability to use or access our information systems at critical points in time could unfavorably impact our business operations.

Our global operations are dependent upon certain information systems, including telecommunications, the internet, our corporate intranet, network communications, email and various computer hardware and software applications. System failures or malfunctioning, such as difficulties with our customer relationship management (“CRM”) system, could disrupt our operations and our ability to timely and accurately process and report key components of our financial results. Our enterprise resource planning (“ERP”) system is integral to our ability to accurately and efficiently maintain our books and records, record transactions, provide critical information to our management, and prepare our financial statements. Any disruptions or difficulties that may occur in connection with our ERP system or other systems (whether in connection with the regular operation, periodic enhancements, modifications or upgrades of such systems or the integration of our acquired businesses into such systems) could adversely affect our ability to complete important business processes, such as the evaluation of our internal control over financial reporting pursuant to Section 404 of the Sarbanes-Oxley Act of 2002. Any of these events could have an adverse effect on our business, operating results and financial condition.

Acquisitions are an important element of our strategy but, because of the uncertainties involved, we may not find suitable acquisition candidates and we may not be able to successfully integrate and manage acquired businesses. We are also exposed to risks in connection with strategic alliances into which we may enter.

In addition to our efforts to develop new technologies from internal sources, part of our growth strategy is to pursue acquisitions and acquire new technologies from external sources. As part of this effort, in February 2019, we announced that we had consummated our acquisition of Orbotech. We may also enter into definitive agreements for and consummate acquisitions of, or significant investments in, businesses with complementary products, services and/or technologies. There can be no assurance that we will find suitable acquisition candidates or that acquisitions we complete will be successful. In addition, we may use equity to finance future acquisitions, which would increase our number of shares outstanding and be dilutive to current stockholders.

If we are unable to successfully integrate and manage acquired businesses, if the costs associated with integrating the acquired business exceeds our expectations, or if acquired businesses perform poorly, then our business and financial results may suffer. It is possible that the businesses we have acquired, as well as businesses that we may acquire in the future, may perform worse than expected or prove to be more difficult to integrate and manage than anticipated. In addition, we may lose key employees of the acquired companies. As a result, risks associated with acquisition transactions may lead to a material adverse effect on our business and financial results for a number of reasons, including:

- we may have to devote unanticipated financial and management resources to acquired businesses;
- the combination of businesses may result in the loss of key personnel or an interruption of, or loss of momentum in, the activities of our company and/or the acquired business;
- we may not be able to realize expected operating efficiencies or product integration benefits from our acquisitions;
- we may experience challenges in entering into new market segments for which we have not previously manufactured and sold products;
- we may face difficulties in coordinating geographically separated organizations, systems and facilities;
- the customers, distributors, suppliers, employees and others with whom the companies we acquire have business dealings may have a potentially adverse reaction to the acquisition;
- we may have difficulty implementing a cohesive framework of internal controls over the entire organization;
- we may have to write-off goodwill or other intangible assets; and
- we may incur unforeseen obligations or liabilities in connection with acquisitions.

At times, we may also enter into strategic alliances with customers, suppliers or other business partners with respect to development of technology and intellectual property. These alliances typically require significant investments of capital and exchange of proprietary, highly sensitive information. The success of these alliances depends on various factors over which we may have limited or no control and requires ongoing and effective cooperation with our strategic partners. Mergers and acquisitions and strategic alliances are inherently subject to significant risks, and the inability to effectively manage these risks could materially and adversely affect our business, financial condition and operating results.

Disruption of our manufacturing facilities or other operations, or in the operations of our customers, due to earthquake, flood, other natural catastrophic events, health epidemics or terrorism could result in cancellation of orders, delays in deliveries or other business activities, or loss of customers and could seriously harm our business.

We have significant manufacturing operations in the United States, Singapore, Israel, Germany, United Kingdom, Italy and China. In addition, our business is international in nature, with our sales, service and administrative personnel and our customers located in numerous countries throughout the world. Operations at our manufacturing facilities and our assembly subcontractors, as well as our other operations and those of our customers, are subject to disruption for a variety of reasons, including work stoppages, acts of war, terrorism, health epidemics and pandemics, fire, earthquake, volcanic eruptions, energy shortages, flooding or other natural disasters. Such disruption could cause delays in, among other things, shipments of products to our customers, our ability to perform services requested by our customers, or the installation and acceptance of our products at customer sites. We cannot provide any assurance that alternate means of conducting our operations (whether through alternate production capacity or service providers or otherwise) would be available if a major disruption were to occur or that, if such alternate means were available, they could be obtained on favorable terms.

In addition, as part of our cost-cutting actions, we have consolidated several operating facilities. Our California operations are now primarily centralized in our Milpitas facility. The consolidation of our California operations into a single campus could further concentrate the risks related to any of the disruptive events described above, such as acts of war or terrorism, earthquakes, fires or other natural disasters, if any such event were to impact our Milpitas facility.

We are predominantly uninsured for losses and interruptions caused by terrorist acts and acts of war. If international political instability continues or increases, our business and results of operations could be harmed.

The threat of terrorism targeted at, or acts of war in, the regions of the world in which we do business increases the uncertainty in our markets. Any act of terrorism or war that affects the economy or the industries we serve could adversely affect our business. Increased international political instability in various parts of the world, disruption in air transportation and further enhanced security measures as a result of terrorist attacks may hinder our ability to do business and may increase our costs of operations. We maintain significant operations in Israel. Since the establishment of the State of Israel in 1948, a number of armed conflicts have taken place between Israel and its Arab neighbors, and a state of hostility varying in degree and intensity, has led to security and economic challenges for Israel. In addition, some of our employees in Israel are obligated to perform annual reserve duty in the Israel Defense Forces, and may be called to active military duty in emergency circumstances. We cannot assess the impact that emergency conditions in Israel in the future may have on our business, operations, financial condition or results of operations, but it could be material. Instability in any region could directly impact our ability to operate our business (or our customers' ability to operate their businesses), cause us to incur increased costs in transportation, make such transportation unreliable, increase our insurance costs, and cause international currency markets to fluctuate. Instability in the region could also have the same effects on our suppliers and their ability to timely deliver their products. If international political instability continues or increases in any region in which we do business, our business and results of operations could be harmed. We are predominantly uninsured for losses and interruptions caused by terrorist acts and acts of war.

We self-insure certain risks including earthquake risk. If one or more of the uninsured events occurs, we could suffer major financial loss.

We purchase insurance to help mitigate the economic impact of certain insurable risks; however, certain risks are uninsurable, are insurable only at significant cost or cannot be mitigated with insurance. Accordingly, we may experience a loss that is not covered by insurance, either because we do not carry applicable insurance or because the loss exceeds the applicable policy amount or is less than the deductible amount of the applicable policy. For example, we do not currently hold earthquake insurance. An earthquake could significantly disrupt our manufacturing operations, a significant portion of which are conducted in California, an area highly susceptible to earthquakes. It could also significantly delay our research and engineering efforts on new products, much of which is also conducted in California. We take steps to minimize the damage that would be caused by an earthquake, but there is no certainty that our efforts will prove successful in the event of an earthquake. We self-insure earthquake risks because we believe this is a prudent financial decision based on our cash reserves and the high cost and limited coverage available in the earthquake insurance market. Certain other risks are also self-insured either based on a similar cost-

benefit analysis, or based on the unavailability of insurance. If one or more of the uninsured events occurs, we could suffer major financial loss.

We are exposed to foreign currency exchange rate fluctuations. Although we hedge certain currency risks, we may still be adversely affected by changes in foreign currency exchange rates or declining economic conditions in these countries.

We have some exposure to fluctuations in foreign currency exchange rates, primarily the Japanese Yen, the euro, the pound sterling and the Israeli new shekel. We have international subsidiaries that operate and sell our products globally. In addition, an increasing proportion of our manufacturing activities are conducted outside of the United States, and many of the costs associated with such activities are denominated in foreign currencies. We routinely hedge our exposures to certain foreign currencies with certain financial institutions in an effort to minimize the impact of certain currency exchange rate fluctuations, but these hedges may be inadequate to protect us from currency exchange rate fluctuations. To the extent that these hedges are inadequate, or if there are significant currency exchange rate fluctuations in currencies for which we do not have hedges in place, our reported financial results or the way we conduct our business could be adversely affected. Furthermore, if a financial counterparty to our hedges experiences financial difficulties or is otherwise unable to honor the terms of the foreign currency hedge, we may experience material financial losses.

We are exposed to fluctuations in interest rates and the market values of our portfolio investments; impairment of our investments could harm our earnings. In addition, we and our stockholders are exposed to risks related to the volatility of the market for our common stock.

Our investment portfolio primarily consists of both corporate and government debt securities that are susceptible to changes in market interest rates and bond yields. As market interest rates and bond yields increase, those securities with a lower yield-at-cost show a mark-to-market unrealized loss. We believe we have the ability to realize the full value of all these investments upon maturity. However, an impairment of the fair market value of our investments, even if unrealized, must be reflected in our financial statements for the applicable period and may therefore have a material adverse effect on our results of operations for that period.

In addition, the market price for our common stock is volatile and has fluctuated significantly during recent years. The trading price of our common stock could continue to be highly volatile and fluctuate widely in response to various factors, including without limitation conditions in the semiconductor industry and other industries in which we operate, fluctuations in the global economy or capital markets, our operating results or other performance metrics, or adverse consequences experienced by us as a result of any of the risks described elsewhere in this Item 1A. Volatility in the market price of our common stock could cause an investor in our common stock to experience a loss on the value of their investment in us and could also adversely impact our ability to raise capital through the sale of our common stock or to use our common stock as consideration to acquire other companies.

We are exposed to risks in connection with tax and regulatory compliance audits in various jurisdictions.

We are subject to tax and regulatory compliance audits (such as related to customs or product safety requirements) in various jurisdictions, and such jurisdictions may assess additional income or other taxes, penalties, fines or other prohibitions against us. Although we believe our tax estimates are reasonable and that our products and practices comply with applicable regulations, the final determination of any such audit and any related litigation could be materially different from our historical income tax provisions and accruals related to income taxes and other contingencies. In addition to and in connection with the Israel Tax Authority (“ITA”) Assessment described in more detail in Note 13 “Income Taxes” in the Notes to the Consolidated Financial Statements, there is an ongoing criminal investigation against our Orbotech subsidiary, certain of its employees and its tax consultant that began prior to the Acquisition Date. We can make no assurances that an indictment will not result from the criminal investigation. The results of an audit or litigation could have a material adverse effect on our operating results or cash flows in the period or periods for which that determination is made.

A change in our effective tax rate can have a significant adverse impact on our business.

We earn profits in, and are therefore potentially subject to taxes in, the U.S. and numerous foreign jurisdictions, including Singapore, Israel and the Cayman Islands, the countries in which we earn the majority of our non-U.S. profits. Due to economic, political or other conditions, tax rates in those jurisdictions may be subject to significant change. A number of factors may adversely impact our future effective tax rates, such as the jurisdictions in which our profits are determined to be earned and taxed; changes in the tax rates imposed by those jurisdictions; expiration of tax holidays in certain jurisdictions that are not renewed; the resolution of issues arising from tax audits with various tax authorities; changes in the valuation of our deferred tax assets and liabilities; adjustments to estimated taxes upon finalization of various tax returns; increases in expenses not deductible for tax purposes, including write-offs of acquired in-process research and development and impairment of goodwill in connection with acquisitions; changes in available tax credits; changes in stock-based compensation expense;

changes in tax laws or the interpretation of such tax laws; changes in generally accepted accounting principles; and the repatriation of earnings from outside the U.S. for which we have not previously provided for U.S. taxes. A change in our effective tax rate can materially and adversely impact our results from operations.

In addition, recent changes to U.S. tax laws will significantly impact how U.S. multinational corporations are taxed on foreign earnings. Numerous countries are evaluating their existing tax laws due in part, to recommendations made by the Organization for Economic Co-operation and Development's ("OECD's") Base Erosion and Profit Shifting ("BEPS") project. As of December 31, 2018, we have completed our accounting for the tax effects of the Act, which was enacted into law on December 22, 2017. However, the recent U.S. tax law changes are subject to future guidance from U.S. federal and state governments, such as the Treasury Department and/or the IRS. Any future guidance can change our tax liability. A significant portion of the income taxes due to the enactment of the Act is payable by us over a period of eight years. As a result, our cash flows from operating activities will be adversely impacted until tax liability is paid in full.

Compliance with federal securities laws, rules and regulations, as well as NASDAQ requirements, has become increasingly complex, and the significant attention and expense we must devote to those areas may have an adverse impact on our business.

Federal securities laws, rules and regulations, as well as NASDAQ rules and regulations, require companies to maintain extensive corporate governance measures, impose comprehensive reporting and disclosure requirements, set strict independence and financial expertise standards for audit and other committee members and impose civil and criminal penalties for companies and their chief executive officers, chief financial officers and directors for securities law violations. These laws, rules and regulations have increased, and in the future are expected to continue to increase, the scope, complexity and cost of our corporate governance, reporting and disclosure practices, which could harm our results of operations and divert management's attention from business operations.

A change in accounting standards or practices or a change in existing taxation rules or practices (or changes in interpretations of such standards, practices or rules) can have a significant effect on our reported results and may even affect reporting of transactions completed before the change is effective.

New accounting standards and taxation rules and varying interpretations of accounting pronouncements and taxation rules have occurred and will continue to occur in the future. Changes to (or revised interpretations or applications of) existing accounting standards or tax rules or the questioning of current or past practices may adversely affect our reported financial results or the way we conduct our business. For example, in the quarter ended September 30, 2019, we adopted the FASB accounting standard update and amended our accounting for leases. Adoption of new standards may require changes to our processes, accounting systems, and internal controls. Difficulties encountered during adoption could result in internal control deficiencies or delay the reporting of our financial results. In addition, the passing of the Act in December 2017 caused us to significantly increase our provision for income taxes, which had a material adverse effect on our net income for the fiscal year ended June 30, 2018. Further interpretations of the Act from the government and regulatory organizations may change our tax expense provided for our transitional tax liability and deferred tax adjustments as well as our provision liability or accounting treatment of the provisional liability which may potentially affect the measurement of these balances or potentially give rise to new deferred tax amounts.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS**Equity Repurchase Plans**

The following is a summary of stock repurchases for the three months ended March 31, 2020:

<u>Period</u>	<u>Total Number of Shares Purchased</u>	<u>Average Price Paid per Share</u>	<u>Total Number of Shares Purchased As Part of Publicly Announced Plans or Programs⁽¹⁾</u>	<u>Approximate Dollar Value that May Yet Be Purchased Under the Plans or Programs⁽¹⁾</u>
January 1, 2020 to January 31, 2020	237,573	\$ 176.78	237,573	\$ 1,307,606,730
February 1, 2020 to February 29, 2020	1,085,631	\$ 161.19	1,085,631	\$ 1,132,608,722
March 1, 2020 to March 31, 2020	654,434	\$ 145.16	654,434	\$ 1,037,609,908
Total	<u>1,977,638</u>	\$ 157.76	<u>1,977,638</u>	

(1) The stock repurchase program was announced on March 19, 2018, with an approved dollar amount of \$2.0 billion. An additional \$1.0 billion was authorized and announced on September 17, 2019. The program has no expiration date and may be suspended at any time. Future repurchases of our common stock under our repurchase program may be effected through various different repurchase transaction structures, including isolated open market transactions or systematic repurchase plans.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

None.

ITEM 6. EXHIBITS

Exhibit Number	Exhibit Description	Form	Incorporated by Reference		Filing Date
			File Number	Exhibit Number	
<u>1.1</u>	<u>Underwriting Agreement, dated as of February 19, 2020, by and among KLA Corporation and Citigroup Global Markets Inc., J.P.</u>	8-K	000-09992	1.1	2/24/2020
<u>4.1</u>	<u>Indenture, dated November 6, 2014, by and between KLA Corporation and Wells Fargo Bank, National Association, as Trustee, filed as Exhibit 4.1 to KLA Corporation's Current Report on Form 8-K as filed with the SEC on November 7, 2014</u>	8-K	000-09992	4.1	11/7/2014
<u>4.2</u>	<u>Form of Officer's Certificate setting forth the terms of the 3.300% Notes due 2050 (with form of Note attached).</u>	8-K	000-09992	4.2	3/3/2020
<u>10.1</u>	<u>Calendar Year 2020 Executive Incentive Plan**</u>				
<u>31.1</u>	<u>Certification of Chief Executive Officer under Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934</u>				
<u>31.2</u>	<u>Certification of Chief Financial Officer under Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934</u>				
<u>32</u>	<u>Certification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. Section 1350</u>				
101.INS	XBRL Instance Document - the instance document does not appear in the Interactive Data file because its XBRL tags are embedded within the Inline XBRL document				
101.SCH	XBRL Taxonomy Extension Schema Document				
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document				
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document				
101.LAB	XBRL Taxonomy Extension Label Linkbase Document				
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document				
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)				

* Denotes a management contract, plan or arrangement.

+ Certain portions of this document that constitute confidential information have been redacted in accordance with Regulation S-K, Item 601 (b)(10).

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.

KLA CORPORATION

(Registrant)

May 6, 2020

(Date)

/s/ RICHARD P. WALLACE

Richard P. Wallace
President and Chief Executive Officer
(Principal Executive Officer)

May 6, 2020

(Date)

/s/ BREN D. HIGGINS

Bren D. Higgins
Executive Vice President and Chief Financial Officer
(Principal Financial Officer)

May 6, 2020

(Date)

/s/ VIRENDRA A. KIRLOSKAR

Virendra A. Kirloskar
Senior Vice President and Chief Accounting Officer
(Principal Accounting Officer)

CERTAIN IDENTIFIED INFORMATION HAS BEEN EXCLUDED FROM THE EXHIBIT BECAUSE IT IS BOTH NOT MATERIAL AND WOULD LIKELY CAUSE COMPETITIVE HARM TO THE COMPANY IF PUBLICLY DISCLOSED. OMISSIONS ARE DESIGNATED AS [**].

CY20 EXECUTIVE INCENTIVE PLAN

(Annual Executive Bonus)

Plan Summary

This KLA Executive Incentive Plan (the “**Plan**”) is intended to motivate senior executives to achieve short-term and long-term corporate objectives by providing a competitive bonus for target performance and potential upside for outstanding performance.

Plan Period

This Plan is effective for the calendar year period from January 1, 2020 through December 31, 2020 (the “**Plan Period**”). Newly eligible employees (e.g., employees promoted to an incentive-eligible position under this Plan for the first time or a new hire) must be in an eligible position on or before October 1, 2020 as recorded in the HR system in order to qualify for participation in this Plan Period.

Eligible Positions

The Chief Executive Officer (“**CEO**”) of KLA Corporation (the “**Company**”) and employees of the Company and designated Company subsidiaries (as identified in Addendum A hereto) holding a position at the X2 or F2 level and above (collectively, with the CEO, “**Executives**”) are eligible to participate in the Plan.

Program Payments

Bonus payments, based on performance during the Plan Period, will be paid within 90 days following December 31, 2020. Bonus calculations shall be based on paid base salary for the applicable Plan Period. Paid base salary includes base salary and seasonal bonuses paid in some countries if the seasonal bonus is considered a component of the employee’s annual salary. Paid base salary does not include relocation allowances and reimbursements, tuition reimbursements, car/transportation allowances, expatriate allowances, commissions, long-term disability payments, or bonuses paid during the Plan Period. A participant must be a regular, active employee of the Company on the date of the payout in order to receive payment. Employees who are promoted or hired into an eligible position during the Plan Period (on or before October 1, 2020) will have their payouts calculated on paid salary from the effective date of the promotion or hire, as recorded in the HR system. If an employee’s target bonus changes during the year, the payout will be prorated.

Target Bonus

A target bonus is established as a percent of base salary for each Plan participant.

Funding Threshold

Total available funding for the Plan will be determined by performance against a threshold level as measured by Balanced Scorecard and Operating Margin (“**OM**”)* performance for the Plan Period.

The Plan will be fully funded (equivalent to the dollar sum, for all Plan participants in the aggregate, of 2 times the product of each Plan participant's target bonus percentage and paid base salary during the Plan Period) upon achievement of OM Performance of \$[**]. This fully funded amount represents the maximum bonus opportunity for all Plan participants in the aggregate and the maximum total cost of the Plan.

Performance Matrix and Determination of Funding Available for Bonus Payments

The level of funding available for payment to participating Executives will be based on performance as measured against the Corporate Balanced Scorecard and OM performance, as provided in the **CY20 Executive Bonus Funding Table** below. Amounts in the table represent the applicable funding multiples. The total level of funding available will be equivalent to the dollar sum, for all Plan participants in the aggregate, of the product of each Plan participant's target bonus percentage and paid base salary during the Plan period multiplied by the funding multiple.

Final CY20 Executive Bonus Funding Table											
Balanced Scorecard Performance		Operating Margin (\$M) Performance									
		<[**]	[**]	[**]	[**]	[**]	[**]	[**]	[**]	[**]	[**]
Exceptional	5	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
	4+	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
	4	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
	3+	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
Primarily Meets Expectations	3	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
	2+	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
	2	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
	1+	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
Opportunity for Improvement	1	0%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%
% of Plan		<[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%	[**]%

CY Target BSc and Non-GAAP Operating Margin Performance

Multiple cannot exceed 200% regardless of performance

Individual Performance and Determination of Executive Bonus Payments

The actual bonus payment amount for each individual Executive (other than the CEO) will be based on the CEO's assessment of the Executive's performance for the Plan Period and determination of the Executive's bonus achievement as a percentage of the Executive's bonus target. Each Executive's performance will be evaluated based on how effectively that Executive led his or her organization as demonstrated against the key Balanced Scorecard measures and objectives for the Executive's respective organization. The bonus achievement percentage and resultant bonus payment for each Plan participant who is an executive officer of the Company for purposes of Section 16 of the Securities Exchange Act of 1934, as amended, with the exception of the CEO, will be recommended by the CEO and reviewed and approved by the Compensation Committee. The bonus achievement percentage and resultant bonus payment for the CEO will be determined and approved by the Company's Board of Directors (with the CEO recusing himself). The bonus achievement percentage and final bonus payment for all other Plan participants will be reviewed and approved by the CEO.

Bonus Calculation

The formula for a participant's bonus calculation is:

Participant's paid base salary for the Plan Period
x Participant's target bonus percentage
x Participant's bonus achievement percentage

In no event shall a bonus payment to a participant exceed 2 times such participant's target bonus (i.e., 2 times the product of the participant's paid base salary for the Plan Period multiplied by the participant's target bonus percentage).

General Provisions

The Compensation Committee (or the independent members of the Company's Board of Directors (the "**Independent Directors**")) shall be the Plan Administrator. The Compensation Committee (or the Independent Directors) shall make such rules, regulations, interpretations and computations and shall take such other action to administer the Plan as it may deem appropriate. The establishment of the Plan shall not confer any legal rights upon any employee or other person for a continuation of employment, nor shall it interfere with the rights of the Company to discharge any employee and to treat him or her without regard to the effect which that treatment might have upon him or her as a participant in the Plan.

This Plan shall be construed, administered and enforced by the Compensation Committee (or the Independent Directors), in its sole discretion. The laws of the State of California will govern any legal dispute involving the Plan. The Compensation Committee (or the Independent Directors) may at any time alter, amend or terminate the Plan in its sole discretion.

This Plan is adopted pursuant to the KLA Performance Bonus Plan and sets forth the terms and conditions for the calendar year 2020 annual incentive program for Executives.

* References in this Plan to Operating Margin refer to the Company's calculation of non-GAAP Operating Margin

ADDENDUM A

Designated Subsidiaries List

1. KLA-Tencor (Singapore) Pte Ltd
2. KLA-Tencor Korea Inc.

Certification of Chief Executive Officer
Pursuant to Exchange Act Rule 13a-14(a)/15d-14(a) As Adopted
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Richard P. Wallace, certify that:

- 1 I have reviewed this Quarterly Report on Form 10-Q of KLA Corporation;
- 2 Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3 Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4 The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5 The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

May 6, 2020

(Date)

/s/ RICHARD P. WALLACE

Richard P. Wallace
President and Chief Executive Officer
(Principal Executive Officer)

Certification of Chief Financial Officer
Pursuant to Exchange Act Rule 13a-14(a)/15d-14(a) As Adopted
Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Bren D. Higgins, certify that:

- 1 I have reviewed this Quarterly Report on Form 10-Q of KLA Corporation;
- 2 Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3 Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4 The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5 The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

May 6, 2020

(Date)

/s/ BREN D. HIGGINS

Bren D. Higgins

Executive Vice President and Chief Financial Officer
(Principal Financial Officer)

CERTIFICATION OF CHIEF EXECUTIVE OFFICER
 PURSUANT TO
 18 U.S.C. SECTION 1350,
 AS ADOPTED PURSUANT TO
 SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Richard P. Wallace, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of KLA Corporation on Form 10-Q for the fiscal quarter ended March 31, 2020 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Quarterly Report on Form 10-Q fairly presents in all material respects the financial condition and results of operations of KLA Corporation.

May 6, 2020
 (Date)

By: /s/ RICHARD P. WALLACE
 Name: Richard P. Wallace
 Title: President and Chief Executive Officer

CERTIFICATION OF CHIEF FINANCIAL OFFICER
 PURSUANT TO
 18 U.S.C. SECTION 1350,
 AS ADOPTED PURSUANT TO
 SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Bren D. Higgins, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Quarterly Report of KLA Corporation on Form 10-Q for the fiscal quarter ended March 31, 2020 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 and that information contained in such Quarterly Report on Form 10-Q fairly presents in all material respects the financial condition and results of operations of KLA Corporation.

May 6, 2020
 (Date)

By: /s/ BREN D. HIGGINS
 Name: Bren D. Higgins
 Title: Executive Vice President and Chief Financial Officer