UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

		FORM 1	0-Q
(Mark One)			
☑		RT PURSUANT TO SECTION 13 OR 15 HE QUARTERLY PERIOD ENDED SEPTEMBEI OR	(d) OF THE SECURITIES EXCHANGE ACT OF 1934 R 30, 2017
			(d) OF THE SECURITIES EXCHANGE ACT OF 1934 TO
		Commission File No.	001-15943
		charles	river
	CHAR	LES RIVER LABORATOR	ES INTERNATIONAL, INC.
		(Exact Name of Registrant as Sp	ecified in Its Charter)
	Delawa	re	06-1397316
	(State or Other Ju Incorporation or C		(I.R.S. Employer Identification No.)
	251 Ballardva	le Street	,
	Wilmington, Ma (Address of Principal E		01887 (Zip Code)
		(Registrant's telephone number, include	ng area code): (781) 222-6000
during the prece			It to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 red to file such reports), and (2) has been subject to such filing requirements
be submitted an		405 of Regulation S-T (§ 232.405 of this chap	posted on its corporate Website, if any, every Interactive Data File required to ter) during the preceding 12 months (or for such shorter period that the
emerging growt			ccelerated filer, a non-accelerated filer, smaller reporting company, or an filer," "smaller reporting company," and "emerging growth company" in
Large a	ccelerated filer ☑	Accelerated filer \square	Non-accelerated filer ☐ (Do not check if smaller
Smaller re	eporting company \square	Emerging growth company \square	reporting company)
Silialiei le	porting company \Box	Emerging grown company	
		indicate by a check mark if the registrant has rovided pursuant to Section 13(a) of the Excl	elected not to use the extended transition period for complying with any new range Act. \Box
Indica	te by check mark whether	he registrant is a shell company (as defined in	n Rule 12b-2 of the Exchange Act). Yes \square No \square
As of 0	October 27, 2017, there we	re 47,361,523 shares of the Registrant's com	non stock outstanding.

CHARLES RIVER LABORATORIES INTERNATIONAL, INC.

QUARTERLY REPORT ON FORM 10-Q FOR THE QUARTERLY PERIOD ENDED SEPTEMBER 30, 2017

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Special Note on Factors Affecting Future Results

This Quarterly Report on Form 10-Q contains forward-looking statements regarding future events and the future results of Charles River Laboratories International, Inc. that are based on our current expectations, estimates, forecasts and projections about the industries in which we operate and the beliefs and assumptions of our management. Words such as "expect," "anticipate," "farget," "goal," "project," "intend," "plan," "believe," "seek," "estimate," "will," "likely," "may," "designed," "would," "future," "can," "could," and other similar expressions that are predictions of or indicate future events and trends or which do not relate to historical matters are intended to identify such forward-looking statements. These statements are based on our current expectations and beliefs and involve a number of risks, uncertainties and assumptions that are difficult to predict. For example, we may use forward-looking statements when addressing topics such as: goodwill and asset impairments still under review; future demand for drug discovery and development products and services, including the outsourcing of these services; our expectations regarding stock repurchases, including the number of shares to be repurchased, expected timing and duration, the amount of capital that may be expended and the treatment of repurchased shares; present spending trends and other cost reduction activities by our clients; future actions by our management; the outcome of contingencies; changes in our business strategy, business practices and methods of generating revenue; the development and performance of our services and products; market and industry conditions, including competitive and pricing trends; our strategic relationships with leading pharmaceutical companies and venture capital investments and opportunities for future similar arrangements; our cost structure; the impact of acquisitions; our expectations with respect to revenue growth and operating synergies (including the impact of specific actions intended to cause related improvements); the impact of specific actions intended to improve overall operating efficiencies and profitability (and our ability to accommodate future demand with our infrastructure), including gains and losses attributable to businesses we plan to close, consolidate, or divest (including our Maryland research model production site); changes in our expectations regarding future stock option, restricted stock, performance share units, and other equity grants to employees and directors; expectations with respect to foreign currency exchange; assessing (or changing our assessment of) our tax positions for financial statement purposes; and our liquidity. In addition, these statements include the impact of economic and market conditions on us and our clients; the effects of our cost saving actions and the steps to optimize returns to shareholders on an effective and timely basis; and our ability to withstand the current market conditions. You should not rely on forward-looking statements because they are predictions and are subject to risks, uncertainties, and assumptions that are difficult to predict. Therefore, actual results may differ materially and adversely from those expressed in any forward-looking statements. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of this document, or in the case of statements incorporated by reference, on the date of the document incorporated by reference. Factors that might cause or contribute to such differences include, but are not limited to, those discussed in our Annual Report on Form 10-K for the year ended December 31, 2016, under the sections entitled "Our Strategy," "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations," in our press releases, and other financial filings with the Securities and Exchange Commission. We have no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, or risks. New information, future events, or risks may cause the forward-looking events we discuss in this report not to occur.

PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

CHARLES RIVER LABORATORIES INTERNATIONAL, INC. CONDENSED CONSOLIDATED STATEMENTS OF INCOME (UNAUDITED) (in thousands, except per share amounts)

		Three Months Ended		Nine Months Ended				
	Sept	ember 30, 2017	September 24, 2016		September 30, 2017		September 24, 2016	
Service revenue	\$	326,711	\$	292,849	\$	960,640	\$	806,397
Product revenue		137,521		132,871		418,484		408,246
Total revenue		464,232		425,720		1,379,124		1,214,643
Costs and expenses:								
Cost of services provided (excluding amortization of intangible assets)		219,368		200,118		640,904		543,588
Cost of products sold (excluding amortization of intangible assets)		67,660		69,332		203,655		204,270
Selling, general and administrative		92,863		85,650		278,886		269,067
Amortization of intangible assets		10,357		11,825		30,913		29,390
Operating income		73,984		58,795		224,766		168,328
Other income (expense):								
Interest income		134		523		497		1,008
Interest expense		(7,667)		(7,079)		(22,053)		(20,199)
Other income, net		6,488		1,017		24,692		10,059
Income from continuing operations, before income taxes		72,939		53,256		227,902		159,196
Provision for income taxes		19,945		15,565		73,272		48,385
Income from continuing operations, net of income taxes		52,994		37,691		154,630		110,811
Income (loss) from discontinued operations, net of income taxes		(39)		342		(114)		328
Net income		52,955		38,033		154,516		111,139
Less: Net income attributable to noncontrolling interests		481		298		1,312		1,054
Net income attributable to common shareholders	\$	52,474	\$	37,735	\$	153,204	\$	110,085
Earnings per common share								
Basic:								
Continuing operations attributable to common shareholders	\$	1.11	\$	0.79	\$	3.23	\$	2.34
Discontinued operations	\$	_	\$	0.01	\$	_	\$	
Net income attributable to common shareholders	\$	1.11	\$	0.80	\$	3.22	\$	2.34
Diluted:								
Continuing operations attributable to common shareholders	\$	1.09	\$	0.78	\$	3.17	\$	2.29
Discontinued operations	\$	_	\$	0.01	\$	_	\$	0.01
Net income attributable to common shareholders	\$	1.08	\$	0.79	\$	3.16	\$	2.30

See Notes to Unaudited Condensed Consolidated Financial Statements.

CHARLES RIVER LABORATORIES INTERNATIONAL, INC. CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (UNAUDITED) (in thousands)

	Three Months Ended		Nine Mor	nths Ended
	September 30, 2017	September 24, 2016	September 30, 2017	September 24, 2016
Net income	\$ 52,955	\$ 38,033	\$ 154,516	\$ 111,139
Other comprehensive income (loss):				
Foreign currency translation adjustment and other	24,570	(16,888)	69,242	(32,798)
Amortization of net loss and prior service benefit included in net periodic cost for pension and other post-retirement benefit plans	883	1,176	2,638	1,961
Comprehensive income, before income taxes	78,408	22,321	226,396	80,302
Income tax expense related to items of other comprehensive income (Note 9)	153	140	776	424
Comprehensive income, net of income taxes	78,255	22,181	225,620	79,878
Less: Comprehensive income (loss) related to noncontrolling interests, net of income taxes	766	_	1,964	(9)
Comprehensive income attributable to common shareholders, net of income taxes	\$ 77,489	\$ 22,181	\$ 223,656	\$ 79,887

CHARLES RIVER LABORATORIES INTERNATIONAL, INC. CONDENSED CONSOLIDATED BALANCE SHEETS (UNAUDITED) (in thousands, except per share amounts)

	September 30, 2017		De	December 31, 2016	
Assets					
Current assets:					
Cash and cash equivalents	\$	123,618	\$	117,626	
Trade receivables, net		422,335		364,050	
Inventories		107,372		95,833	
Prepaid assets		42,695		34,315	
Other current assets		86,358		45,008	
Total current assets		782,378		656,832	
Property, plant and equipment, net		767,192		755,827	
Goodwill		800,247		787,517	
Client relationships, net		304,382		320,157	
Other intangible assets, net		71,065		74,291	
Deferred tax assets		30,856		28,746	
Other assets		109,798		88,430	
Total assets	\$	2,865,918	\$	2,711,800	
Liabilities, Redeemable Noncontrolling Interest and Equity					
Current liabilities:					
Current portion of long-term debt and capital leases	\$	27,090	\$	27,313	
Accounts payable		66,232		68,485	
Accrued compensation		86,402		93,471	
Deferred revenue		108,984		127,731	
Accrued liabilities		91,783		84,470	
Other current liabilities		33,614		26,500	
Current liabilities of discontinued operations		1,650		1,623	
Total current liabilities		415,755		429,593	
Long-term debt, net and capital leases		1,155,998		1,207,696	
Deferred tax liabilities		81,783		55,717	
Other long-term liabilities		167,493		159,239	
Long-term liabilities of discontinued operations		4,395		5,771	
Total liabilities		1,825,424		1,858,016	
Commitments and contingencies (Note 13)		_,,		_,,,,,,,	
Redeemable noncontrolling interest		15,785		14,659	
Equity:		15,7 05		1 1,000	
Preferred stock, \$0.01 par value; 20,000 shares authorized; no shares issued and outstanding		_			
Common stock, \$0.01 par value; 120,000 shares authorized; 87,417 shares issued and 47,324 shares outstanding as of September 30, 2017, and 86,301 shares issued and 47,363 shares outstanding as of December 31, 2016		874		863	
Additional paid-in capital		2,545,351		2,477,371	
Retained earnings		318,507		165,303	
Treasury stock, at cost 40,093 shares and 38,938 shares as of September 30, 2017, and December 31, 2016,		310,307		103,303	
respectively		(1,659,907)		(1,553,005)	
Accumulated other comprehensive loss		(183,312)		(253,764)	
Total equity attributable to common shareholders		1,021,513		836,768	
Noncontrolling interests		3,196		2,357	
Total equity		1,024,709		839,125	
Total liabilities, redeemable noncontrolling interest and equity	\$	2,865,918	\$	2,711,800	

See Notes to Unaudited Condensed Consolidated Financial Statements.

CHARLES RIVER LABORATORIES INTERNATIONAL, INC. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (UNAUDITED) (in thousands)

		Nine Months Ended		l
	Septer	nber 30, 2017	September 24, 2016	
Cash flows relating to operating activities				
Net income	\$	154,516	\$	111,139
Less: Income (loss) from discontinued operations, net of income taxes		(114)		328
Income from continuing operations, net of income taxes		154,630		110,811
Adjustments to reconcile net income from continuing operations to net cash provided by operating activities:				
Depreciation and amortization		97,675		91,116
Stock-based compensation		32,902		32,647
Deferred income taxes		18,176		(270)
Gain on divestiture		(10,577)		_
Other, net		(3,579)		92
Changes in assets and liabilities:				
Trade receivables, net		(42,712)		(43,260)
Inventories		(9,500)		(4,352)
Accounts payable		(6,160)		17,184
Accrued compensation		(10,548)		8,163
Other assets and liabilities, net		(26,469)		(13,879)
Net cash provided by operating activities		193,838	-	198,252
Cash flows relating to investing activities		,		
Acquisition of businesses and assets, net of cash acquired		(22,474)		(597,607)
Capital expenditures		(53,928)		(29,609)
Purchases of investments		(42,135)		(20,278)
Proceeds from sale of investments and distributions from venture capital investments		6,604		26,035
Proceeds from divestiture		72,462		20,033
				2 700
Other, net	<u></u>	(288)		3,790
Net cash used in investing activities		(39,759)		(617,669)
Cash flows relating to financing activities				000 =04
Proceeds from long-term debt and revolving credit facility		229,255		926,781
Proceeds from exercises of stock options		35,089		21,643
Payments on long-term debt, revolving credit facility and capital lease obligations		(309,258)		(526,983)
Purchase of treasury stock		(106,902)		(12,226)
Other, net		(3,650)		(4,533)
Net cash (used in) provided by financing activities	<u> </u>	(155,466)		404,682
Discontinued operations				
Net cash used in operating activities from discontinued operations		(1,489)		(1,434)
Effect of exchange rate changes on cash, cash equivalents, and restricted cash		9,135		4,325
Net change in cash, cash equivalents, and restricted cash		6,259		(11,844)
Cash, cash equivalents, and restricted cash, beginning of period		119,894		119,963
Cash, cash equivalents, and restricted cash, end of period	\$	126,153	\$	108,119
Supplemental cash flow information:				
Cash and cash equivalents	\$	123,618	\$	105,722
Restricted cash included in Other current assets		591		572
Restricted cash included in Other assets		1,944		1,825
Cash, cash equivalents, and restricted cash, end of period	\$	126,153	\$	108,119
	-	,100	*	

See Notes to Unaudited Condensed Consolidated Financial Statements.

1. BASIS OF PRESENTATION

The accompanying condensed consolidated financial statements are unaudited and have been prepared by Charles River Laboratories International, Inc. (the Company) in accordance with accounting principles generally accepted in the United States (U.S. GAAP) and pursuant to the rules and regulations of the Securities and Exchange Commission. The year-end condensed consolidated balance sheet data was derived from the Company's audited consolidated financial statements, but does not include all disclosures required by U.S. GAAP. These unaudited condensed consolidated financial statements should be read in conjunction with the Company's Annual Report on Form 10-K for fiscal year 2016. The unaudited condensed consolidated financial statements, in the opinion of management, reflect all normal and recurring adjustments necessary for a fair statement of the Company's financial position and results of operations.

The Company has reclassified certain amounts in the unaudited condensed consolidated statements of cash flows for prior periods to conform to the current year presentation. See "Newly Adopted Accounting Pronouncements" below.

Use of Estimates

The preparation of unaudited condensed consolidated financial statements in accordance with U.S. GAAP requires that the Company make estimates and judgments that may affect the reported amounts of assets, liabilities, redeemable noncontrolling interest, revenues, expenses and related disclosure of contingent assets and liabilities. On an on-going basis, the Company evaluates its estimates, judgments, and methodologies. The Company bases its estimates on historical experience and on various other assumptions that are believed to be reasonable, the results of which form the basis for making judgments about the carrying values of assets and liabilities. Actual results may differ from these estimates under different assumptions or conditions. Changes in estimates are reflected in reported results in the period in which they become known.

Consolidation

The Company's unaudited condensed consolidated financial statements reflect its financial statements and those of its subsidiaries in which the Company holds a controlling financial interest. For consolidated entities in which the Company owns or is exposed to less than 100% of the economics, the Company records net income (loss) attributable to noncontrolling interests in its consolidated statements of income equal to the percentage of the economic or ownership interest retained in such entities by the respective noncontrolling parties. Intercompany balances and transactions are eliminated in consolidation.

The Company's fiscal year is typically based on a 52-week year, with each quarter composed of 13 weeks ending on the last Saturday on, or closest to, March 31, June 30, September 30, and December 31. A 53rd week was included in the fourth quarter of fiscal year 2016, which is occasionally necessary to align with a December 31 calendar year end.

Summary of Significant Accounting Policies

The Company's significant accounting policies are described in Note 1, "Description of Business and Summary of Significant Accounting Policies," in the Company's Annual Report on Form 10-K for fiscal year 2016.

Newly Adopted Accounting Pronouncements

In November 2016, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2016-18, "Restricted Cash." The standard addresses the classification and presentation of restricted cash and restricted cash equivalents within the statement of cash flows. The Company elected to early adopt this standard in fiscal year 2017 and applied the changes retrospectively to all prior periods presented in its unaudited condensed consolidated statements of cash flows.

The Company historically excluded restricted cash balances, recorded in current and long-term other assets, from cash and cash equivalents within the unaudited condensed consolidated statements of cash flows, reflecting transfers between cash, cash equivalents, and restricted cash as a cash flow classified within cash flows relating to operating activities. As a result of the adoption of this standard, the Company combined restricted cash balances of \$2.4 million and \$2.0 million as of September 24, 2016, and December 26, 2015, respectively, with cash and cash equivalents when reconciling the beginning and ending balances within the unaudited condensed consolidated statements of cash flows for the nine months ended September 24, 2016.

In August 2016, the FASB issued ASU 2016-15, "Classification of Certain Cash Receipts and Cash Payments." The standard addresses the classification of certain transactions within the statement of cash flows, including cash payments for debt prepayment or debt extinguishment costs, contingent consideration payments made after a business combination, and distributions received from equity method investments. The Company elected to early adopt this standard in fiscal year 2017 and applied the changes retrospectively to all prior periods presented within its unaudited condensed consolidated statements of cash flows. As a result of the adoption of this standard, the Company reclassified \$2.2 million from investing activities to operating activities within the unaudited condensed consolidated statements of cash flows for the nine months ended September 24, 2016.

In March 2016, the FASB issued ASU 2016-09, "Improvements to Employee Share-Based Payment Accounting." The standard reduces complexity in several aspects of the accounting for employee share-based compensation, including the income tax

consequences, classification of awards as either equity or liabilities, and classification within the statement of cash flows. The Company adopted this standard in fiscal year 2017, and applied the changes as required by each amendment to its unaudited condensed consolidated financial statements and related disclosures.

Under ASU 2016-09, the Company adopted the amendment to recognize excess tax benefits and tax deficiencies in the consolidated statements of income on a prospective basis, to present excess tax benefits within operating activities within the unaudited condensed consolidated statements of cash flows on a retrospective basis, and elected to change its accounting policy to account for forfeitures as they occur on a modified retrospective basis.

The adoption to recognize excess tax benefits and tax deficiencies within the unaudited condensed consolidated statements of income on a prospective basis could result in fluctuations in the effective tax rate period-over-period, depending on how many awards vest and the volatility of the Company's stock price. During the three months ended September 30, 2017, the impact to the provision for income taxes within the unaudited condensed consolidated statements of income was an excess tax benefit of \$0.9 million. During the nine months ended September 30, 2017, the impact on the provision for income taxes within the unaudited condensed consolidated statements of income was an excess tax benefit of \$9.7 million. Further, for the three and nine months ended September 30, 2017, the Company excluded the effect of windfall tax benefits from the hypothetical proceeds used to calculate the repurchase of shares under the treasury stock method for the calculation of diluted earnings per share.

The adoption of the amendment to present excess tax benefits within operating activities within the unaudited condensed consolidated statements of cash flows on a retrospective basis resulted in the reclassification of a cash inflow of \$9.5 million from cash provided by financing activities to cash provided by operating activities for the nine months ended September 24, 2016. The Company had previously classified cash paid for tax withholding purposes as a financing activity within the unaudited condensed consolidated statements of cash flows; therefore, there was no change related to this requirement under the amendment.

The Company's election to change its accounting policy to account for forfeitures when they occur on a modified retrospective basis resulted in an immaterial impact on its unaudited condensed consolidated financial statements and related disclosures.

Newly Issued Accounting Pronouncements

In August 2017, the FASB issued ASU 2017-12, "Derivatives and Hedging (Topic 815) Targeted Improvements to Accounting for Hedging Activities." ASU 2017-12 refines and expands hedge accounting for both financial and commodity risks. It also creates more transparency around how economic results are presented, both on the face of the financial statements and in the disclosures. In addition, this ASU makes certain targeted improvements to simplify the application of hedge accounting guidance. This ASU is effective for fiscal years beginning after December 15, 2018, and interim periods within those fiscal years, and requires the modified retrospective approach. Early adoption is permitted. This update applies to all existing hedging relationships on the date of adoption with the cumulative effect of adoption being reflected as of the beginning of the fiscal year of adoption. The Company is still evaluating the impact this standard will have on its consolidated financial statements and related disclosures.

In March 2017, the FASB issued ASU 2017-07, "Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost." The standard requires an employer to disaggregate the service cost component from the other components of net benefit cost and provides explicit guidance on the presentation of the service cost component and the other components of net benefit cost in the statements of income. The ASU is effective for annual periods beginning after December 15, 2017, including interim periods within those fiscal years, and should be applied retrospectively for the presentation of the service cost component and the other components of net periodic pension cost in the statements of income. Early adoption is permitted within the first interim period of the fiscal year. The Company is still evaluating the impact this standard will have on its consolidated financial statements and related disclosures.

In January 2017, the FASB issued ASU 2017-04, "Simplifying the Test for Goodwill Impairment." The standard simplifies the accounting for goodwill impairment by removing Step 2 of the goodwill impairment test, which requires a hypothetical purchase price allocation. This standard is effective for annual or interim goodwill impairment tests in fiscal years beginning after December 15, 2019, and will be applied on a prospective basis. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. The adoption of this standard is not expected to have a material impact on the Company's consolidated financial statements and related disclosures.

In January 2017, the FASB issued ASU 2017-01, "Clarifying the Definition of a Business." The standard clarifies the definition of a business by adding guidance to assist entities in evaluating whether transactions should be accounted for as acquisitions of assets or businesses. This standard is effective for fiscal years beginning after December 15, 2017, and interim periods within those fiscal years. Early adoption is permitted for certain transactions. The Company is still evaluating the impact this standard will have on its consolidated financial statements and related disclosures.

In October 2016, the FASB issued ASU 2016-16, "Intra-Entity Transfers of Assets Other Than Inventory." The standard requires the immediate recognition of tax effects for an intra-entity asset transfer other than inventory. This standard is effective for fiscal years beginning after December 15, 2017, and interim periods within those fiscal years. Early adoption is permitted. The adoption of this standard is not expected to have a material impact on the Company's consolidated financial statements and related disclosures.

In February 2016, the FASB issued ASU 2016-02, "Leases." The standard established the principles that lessees and lessors will apply to report useful information to users of financial statements about the amount, timing and uncertainty of cash flows arising from a lease. This standard is effective for fiscal years beginning after December 15, 2018, and interim periods within those fiscal years. Early adoption is permitted. The Company is still evaluating the full impact this standard will have on its consolidated financial statements and related disclosures, but expects to recognize substantially all of its leases on the balance sheet by recording a right-to-use asset and a corresponding lease liability.

In May 2014, the FASB issued ASU 2014-09, "Revenue from Contracts with Customers." The standard, including subsequently issued amendments, will replace most existing revenue recognition guidance in U.S. GAAP when it becomes effective and permits the use of either a modified retrospective or cumulative effect transition method. The standard will require an entity to recognize the amount of revenue to which it expects to be entitled for the transfer of promised goods or services to customers. The standard will be effective for annual and interim periods beginning after December 15, 2017. The Company formed an implementation team during fiscal year 2016 to oversee adoption of the new standard. The implementation team has completed its initial assessment of the new standard, including a detailed review of the Company's contract portfolio, revenue streams to identify potential differences in accounting as a result of the new standard, and selected the modified retrospective transition method. The Company continues to assess the impact on the existing revenue accounting policies, newly required financial statement disclosures, and executing on the project plan. Currently, the Company is finalizing contract reviews, working through anticipated changes to systems and business processes, and internal controls to support the adoption of the new standard. The Company preliminarily expects certain changes in the timing of revenue recognition within the Manufacturing reportable segment, specifically within the Biologics business where revenue from certain studies will shift to recognition at a point in time instead of the current recognition over time. Other isolated changes to the timing of revenue recognition may be necessary in other businesses.

2. BUSINESS ACQUISITIONS AND DIVESTITURE

Brains On-Line

On August 4, 2017, the Company acquired Brains On-Line, a leading contract research organization (CRO) providing critical data that advances novel therapeutics for the treatment of central nervous system (CNS) diseases. Brains On-Line strategically expands the Company's existing CNS capabilities and establishes the Company as a single-source provider for a broad portfolio of discovery CNS services. The purchase price for Brains On-Line was \$21.3 million in cash, subject to certain post-closing adjustments that may change the purchase price, and was funded by the Company's various borrowings. In addition to the initial purchase price, the transaction includes aggregate, undiscounted contingent payments of up to €6.7 million (approximately \$7.9 million based on current exchange rates), based on future performance. The Brains On-Line business is reported as part of the Company's DSA reportable segment.

The contingent payments become payable based on the achievement of certain revenue and earnings targets. If achieved, the payments become due in the first quarter of fiscal year 2019. The Company estimated the fair value of this contingent consideration based on a probability-weighted set of outcomes.

The purchase price allocation of \$20.6 million, net of \$0.7 million of cash acquired, was as follows:

	A	ugust 4, 2017
	(iı	n thousands)
Trade receivables (contractual amount of \$1,146)	\$	1,146
Other current assets (excluding cash)		670
Property, plant and equipment		664
Other long-term assets		13
Definite-lived intangible assets		9,300
Goodwill		12,324
Current liabilities		(863)
Deferred revenue		(405)
Long-term liabilities		(2,203)
Total purchase price allocation	\$	20,646

The purchase price allocation is subject to change as additional information becomes available concerning the fair value and tax basis of the assets acquired and liabilities assumed. Any additional adjustments to the purchase price allocation will be made as soon as practicable but no later than one year from the date of acquisition.

The breakout of definite-lived intangible assets acquired was as follows:

		Lived Intangible Assets	Weighted Average Amortization Life
	(in t	housands)	(in years)
Client relationships	\$	7,000	13
Other intangible assets		2,300	10
Total definite-lived intangible assets	\$	9,300	12

The goodwill resulting from the transaction is primarily attributable to the potential growth of the Company's DSA businesses from customers and technology introduced through Brains On-Line and the assembled workforce of the acquired business. The goodwill attributable to Brains On-Line is not deductible for tax purposes.

The Company incurred transaction and integration costs in connection with the acquisition of \$1.2 million and \$2.1 million for the three and nine months ended September 30, 2017, respectively, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income.

Pro forma financial information as well as actual revenue and operating income have not been included because Brains On-Line's financial results are not significant when compared to the Company's consolidated financial results.

Agilux

On September 28, 2016, the Company acquired Agilux Laboratories, Inc. (Agilux), a CRO that provides a suite of integrated discovery bioanalytical services for small and large molecules, drug metabolism and pharmacokinetic services, and pharmacology services. The acquisition supports the Company's strategy to offer clients a broader, integrated portfolio that provides services continuously from the earliest stages of drug research through the non-clinical development process. The purchase price for Agilux was \$64.9 million in cash and was funded by borrowings on the Company's revolving credit facility. The business is reported as part of the Company's DSA reportable segment.

The purchase price allocation of \$62.0 million, net of \$2.9 million of cash acquired, was as follows:

	September 28, 2016	
	(i	n thousands)
Trade receivables (contractual amount of \$4,799)	\$	4,799
Other current assets (excluding cash)		794
Property, plant and equipment		3,907
Other long-term assets		11
Definite-lived intangible assets		21,900
Goodwill		44,517
Current liabilities		(3,812)
Long-term liabilities		(10,091)
Total purchase price allocation	\$	62,025

From the date of the acquisition through September 30, 2017, the Company recorded measurement-period adjustments related to the acquisition that resulted in an immaterial change to the purchase price allocation on a consolidated basis. No further adjustments will be made to the purchase price allocation.

The breakout of definite-lived intangible assets acquired was as follows:

	Definite-	Lived Intangible Assets	Weighted Average Amortization Life
	(in	thousands)	(in years)
Client relationships	\$	16,700	17
Other intangible assets		5,200	4
Total definite-lived intangible assets	\$	21,900	14

The goodwill resulting from the transaction is primarily attributable to the potential growth of the Company's DSA businesses from customers and technology introduced through Agilux and the assembled workforce of the acquired business. The goodwill attributable to Agilux is not deductible for tax purposes.

The Company incurred zero and \$0.3 million in transaction and integration costs in connection with the acquisition during the three and nine months ended September 30, 2017, respectively, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income. The Company incurred \$1.1 million in transaction and integration costs in connection with the acquisition during the three and nine months ended September 24, 2016, respectively, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income.

Blue Stream

On June 27, 2016, the Company acquired Blue Stream Laboratories, Inc. (Blue Stream), an analytical CRO supporting the development of complex biologics and biosimilars. Combining Blue Stream with the Company's existing discovery, safety assessment, and biologics capabilities created a leading CRO that has the ability to support biologic and biosimilar development from characterization through clinical testing and commercialization. The purchase price for Blue Stream was \$11.7 million, including \$3.0 million in contingent consideration, and was subject to certain customary adjustments. The acquisition was funded by borrowings on the Company's revolving credit facility. The business is reported in the Company's Manufacturing reportable segment.

The Company estimated the fair value of this contingent consideration based on a probability-weighted set of outcomes. The contingent consideration is a one-time payment payable based on the achievement of a revenue target. The target was achieved and the Company paid the contingent consideration in the third quarter of fiscal year 2017.

The purchase price allocation of \$11.7 million, net of a non-significant amount of cash acquired, was as follows:

	Jı	me 27, 2016
	(ir	thousands)
Trade receivables (contractual amount of \$1,104)	\$	1,104
Other current assets (excluding cash)		15
Property, plant and equipment		912
Other long-term assets		187
Definite-lived intangible assets		1,230
Goodwill		10,334
Current liabilities		(1,132)
Long-term liabilities		(901)
Total purchase price allocation	\$	11,749

The breakout of definite-lived intangible assets acquired was as follows:

	Definit	e-Lived Intangible Assets	Weighted Average Amortization Life
	(i	n thousands)	(in years)
Client relationships	\$	650	10
Other intangible assets		580	5
Total definite-lived intangible assets	\$	1,230	7

The goodwill resulting from the transaction is primarily attributable to the potential growth of the Company's Manufacturing segment from customers and technology introduced through Blue Stream, the assembled workforce of the acquired business, expected synergies, and the development of future proprietary processes. The goodwill attributable to Blue Stream is not deductible for tax purposes.

The Company incurred non-significant transaction and integration costs in connection with the acquisition during the three and nine months ended September 30, 2017, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income. The Company incurred a non-significant amount and \$0.4 million of transaction and integration costs during the three and nine months ended September 24, 2016, respectively, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income.

WIL Research

On April 4, 2016, the Company acquired WIL Research, a provider of safety assessment and CDMO services to biopharmaceutical, agricultural and industrial chemical companies worldwide. The acquisition enhanced the Company's position as a leading, global, early-stage CRO by strengthening its ability to partner with clients across the drug discovery and development continuum. The purchase price for WIL Research was \$604.8 million, including assumed liabilities of \$0.4 million. The purchase price included payment for actual working capital of the acquired business. The acquisition was funded by cash on hand and borrowings on the Company's \$1.65B Credit Facility. See Note 7, "Long-Term Debt and Capital Lease Obligations." WIL Research's safety assessment and CDMO businesses are reported in the Company's DSA and Manufacturing reportable segments, respectively. On February 10, 2017, the Company divested the CDMO business.

The purchase price allocation of \$577.4 million, net of \$27.4 million of cash acquired, was as follows:

	 April 4, 2016
	(in thousands)
Trade receivables (contractual amount of \$48,625)	\$ 48,157
Inventories	2,296
Other current assets (excluding cash)	3,814
Property, plant and equipment	129,066
Other long-term assets	1,060
Definite-lived intangible assets	164,800
Goodwill	330,175
Deferred revenue	(39,103)
Other current liabilities	(27,386)
Long-term liabilities	(35,488)
Total purchase price allocation	\$ 577,391

The breakout of definite-lived intangible assets acquired was as follows:

	Definite-	Lived Intangible Assets	Weighted Average Amortization Life
	(in	thousands)	(in years)
Client relationships	\$	137,500	15
Developed technology		20,700	3
Backlog		6,600	1
Total definite-lived intangible assets	\$	164,800	13

The goodwill resulting from the transaction, \$19.0 million of which was deductible for tax purposes due to a prior asset acquisition, was primarily attributed to the potential growth of the Company's DSA and Manufacturing businesses from clients introduced through WIL Research, the assembled workforce of the acquired business, and expected cost synergies. Subsequent to the divestiture of the CDMO business on February 10, 2017, \$14.8 million of the goodwill was deductible for tax purposes.

The Company incurred transaction and integration costs in connection with the acquisition of \$0.4 million and \$1.3 million for the three months ended September 30, 2017 and September 24, 2016, respectively, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income. The Company incurred transaction and integration costs in connection with the acquisition of \$1.6 million and \$13.7 million for the nine months ended September 30, 2017 and September 24, 2016, respectively, which were included in selling, general and administrative expenses, within the unaudited condensed consolidated statements of income.

WIL Research revenue and operating income for the three months ended September 24, 2016 were \$57.4 million and \$3.6 million, respectively. WIL Research revenue and operating income for the nine months ended September 24, 2016 were \$112.6 million and \$4.6 million, respectively.

The following selected *pro forma* consolidated results of operations are presented as if the WIL Research acquisition had occurred as of the beginning of the period immediately preceding the period of acquisition after giving effect to certain adjustments. For the nine months ended September 24, 2016, these adjustments included additional amortization of intangible assets and depreciation of fixed assets of \$1.4 million, reversal of interest expense on borrowings of \$2.7 million, elimination of intercompany activity, and other one-time costs, and the tax impacts of these adjustments.

		September 24, 2016				
	Th	ree Months Ended		Nine Months Ended		
		are amounts)				
Revenue	\$	425,720	\$	1,275,175		
Net income attributable to common shareholders		39,530		129,050		
Earnings per common share						
Basic	\$	0.84	\$	2.75		
Diluted	\$	0.82	\$	2.70		

These *pro forma* results of operations have been prepared for comparative purposes only, and they do not purport to be indicative of the results of operations that actually would have resulted had the acquisition occurred on the date indicated or that may result in the future. No effect has been given for synergies, if any, that may have been realized through the acquisition.

Contract Manufacturing

On February 10, 2017, the Company completed the divestiture of its CDMO business to Quotient Clinical Ltd., based in London, England, for \$75.0 million in proceeds, net of \$0.6 million in cash and cash equivalents transferred in conjunction with the sale and \$0.3 million of working capital adjustments.

The CDMO business was acquired in April 2016 as part of the acquisition of WIL Research and was reported in the Company's Manufacturing reportable segment. Following a strategic review that was finalized subsequent to December 31, 2016, the Company determined that the CDMO business was not optimized within the Company's portfolio at its current scale, and that the capital could be better deployed in other long-term growth opportunities.

During the three months ended April 1, 2017, the Company recorded a gain on the divestiture of the CDMO business of \$10.6 million, which was included in other income, net within the Company's unaudited condensed consolidated statements of income. As of February 10, 2017, the carrying amounts of the major classes of assets and liabilities associated with the divestiture of the CDMO business were as follows (in thousands):

Assets	
Current assets	\$ 5,505
Property, plant and equipment, net	11,174
Goodwill	35,857
Long-term assets	17,154
Total assets	\$ 69,690
Liabilities	
Deferred revenue	\$ 4,878
Other current liabilities	1,158
Total liabilities	\$ 6,036

3. SUPPLEMENTAL BALANCE SHEET INFORMATION

The composition of trade receivables, net is as follows:

	Sept	September 30, 2017		cember 31, 2016	
		(in thousands)			
Client receivables	\$	321,472	\$	283,997	
Unbilled revenue		103,389		82,203	
Total		424,861	-	366,200	
Less: Allowance for doubtful accounts		(2,526)		(2,150)	
Trade receivables, net	\$	422,335	\$	364,050	

The composition of inventories is as follows:

	Septe	September 30, 2017		ember 31, 2016
		(in thou	sands)	
Raw materials and supplies	\$	19,256	\$	18,893
Work in process		13,163		13,681
Finished products		74,953		63,259
Inventories	\$	107,372	\$	95,833

The composition of other current assets is as follows:

	Septe	ember 30, 2017	De	cember 31, 2016
		(in tho	usands)	
Investments	\$	30,351	\$	3,771
Prepaid income taxes		55,416		40,705
Restricted cash		591		532
Other current assets	\$	86,358	\$	45,008

The composition of other assets is as follows:

	Se	September 30, 2017		ember 31, 2016		
		(in thousands)				
Life insurance policies	\$	32,739	\$	29,456		
Venture capital investments		59,511		45,331		
Restricted cash		1,944		1,736		
Other		15,604		11,907		
Other assets	\$	109,798	\$	88,430		

The composition of other current liabilities is as follows:

		September 30, 2017		December 31, 2016
	(in thousands)			
Accrued income taxes	\$	32,931	\$	25,621
Other		683		879
Other current liabilities	\$	33,614	\$	26,500

The composition of other long-term liabilities is as follows:

		September 30, 2017		December 31, 2016
		(in tho	usan	ds)
Long-term pension liability	\$	91,991	\$	89,984
Accrued executive supplemental life insurance retirement plan and deferred compensation plan	1	33,926		32,880
Other		41,576		36,375
Other long-term liabilities	\$	167,493	\$	159,239

4. VENTURE CAPITAL INVESTMENTS

The Company invests in several venture capital funds that invest in start-up companies, primarily in the life sciences industry. The Company's ownership interest in these funds ranges from 0.7% to 12.1%. The Company accounts for the investments in limited partnerships (LPs), which are variable interest entities, under the equity or cost method of accounting. The Company is not the primary beneficiary because it has no power to direct the activities that most significantly affect the LPs' economic

performance. The Company accounts for the investments in limited liability companies, which are not variable interest entities, under the equity method of accounting.

The Company's total commitments to the venture capital funds as of September 30, 2017, were \$87.7 million, of which the Company funded \$48.0 million through that date. During the three and nine months ended September 30, 2017, the Company received dividends of \$3.3 million and \$7.7 million, respectively, from the funds. During each of the three and nine months ended September 24, 2016, the Company received dividends of \$2.3 million from the funds. The Company recognized gains of \$5.8 million and \$0.4 million related to these investments for the three months ended September 30, 2017 and September 24, 2016, respectively. The Company recognized gains of \$12.5 million and \$8.5 million related to these investments for the nine months ended September 30, 2017 and September 24, 2016, respectively.

5. FAIR VALUE

The Company has certain assets and liabilities recorded at fair value, which have been classified as Level 1, 2, or 3 within the fair value hierarchy:

- Level 1 Fair values are determined utilizing prices (unadjusted) in active markets for identical assets or liabilities that the Company has the ability to access,
- Level 2 Fair values are determined by utilizing quoted prices for identical or similar assets and liabilities in active markets or other market observable inputs such as interest rates, yield curves, and foreign currency spot rates,
- · Level 3 Prices or valuations that require inputs that are both significant to the fair value measurement and unobservable.

The fair value hierarchy level is determined by asset and liability class based on the lowest level of significant input. The observability of inputs may change for certain assets or liabilities. This condition could cause an asset or liability to be reclassified between levels. The Company recognizes transfers between levels within the fair value hierarchy, if any, at the end of each quarter. During the nine months ended September 30, 2017 and September 24, 2016, there were no transfers between levels.

Valuation methodologies used for assets and liabilities measured or disclosed at fair value are as follows:

- Cash equivalents Valued at market prices determined through third-party pricing services;
- Mutual funds Valued at the unadjusted quoted net asset value of shares held by the Company;
- Foreign currency forward contracts Valued using market observable inputs, such as forward foreign exchange points and foreign exchanges rates;
- Life insurance policies Valued at cash surrender value based on the fair value of underlying investments; and
- · Contingent consideration Valued based on a probability weighting of the future cash flows associated with the potential outcomes.

Assets and liabilities measured at fair value on a recurring basis are summarized below:

	September 30, 2017							
	1	Level 1	Level 2		Level 3			Total
	(in tho					ls)		
Cash equivalents	\$	_	\$	21	\$	_	\$	21
Other assets:								
Life insurance policies		_		25,218		_		25,218
Total assets measured at fair value	\$		\$	25,239	\$	_	\$	25,239
Other current liabilities:								
Contingent consideration	\$	_	\$	_	\$	296	\$	296
Total liabilities measured at fair value	\$		\$		\$	296	\$	296
				Decembe	r 31, 2	2016		
		Level 1		Decembe	r 31, 2	2016 Level 3		Total
]	Level 1			-	Level 3		Total
Cash equivalents	\$	Level 1	\$	Level 2	-	Level 3	\$	Total 21
Cash equivalents Other assets:		Level 1	\$	Level 2 (in tho	usand	Level 3	\$	
-		Level 1 —	\$	Level 2 (in tho	usand	Level 3	\$	
Other assets:		Level 1 — — — — — — — — — — — — — — — — — —	\$	Level 2 (in tho 21	usand	Level 3	\$	21
Other assets: Life insurance policies	\$	Level 1 — — — — — — — — — — — — — — — — — —		Level 2 (in tho 21 22,121	usand \$	Level 3	\$	21 22,121
Other assets: Life insurance policies	\$	Level 1		Level 2 (in tho 21 22,121	usand \$	Level 3	\$	21 22,121
Other assets: Life insurance policies Total assets measured at fair value	\$	Level 1		Level 2 (in tho 21 22,121	usand \$	Level 3	\$ <u>\$</u>	21 22,121

Contingent Consideration

The following table provides a rollforward of the contingent consideration related to the business acquisitions. See Note 2, "Business Acquisitions and Divestiture."

	 Nine Months Ended				
	 September 30, 2017		September 24, 2016		
	(in tho	ls)			
Beginning balance	\$ 3,621	\$	1,370		
Additions	296		3,600		
Payments	(3,606)		(874)		
Total gains or losses (realized/unrealized):					
Reversal of previously recorded contingent liability and					
change in fair value	(15)		30		
Ending balance	\$ 296	\$	4,126		

The unobservable inputs used in the fair value measurement of the Company's contingent consideration are the probabilities of successful achievement of certain financial targets and a discount rate. Increases or decreases in any of the probabilities of success would result in a higher or lower fair value measurement, respectively. Increases or decreases in the discount rate would result in a lower or higher fair value measurement, respectively.

Debt Instruments

The book value of the Company's term and revolving loans, which are variable rate loans carried at amortized cost, approximates the fair value based on current market pricing of similar debt. As the fair value is based on significant other observable inputs, including current interest and foreign currency exchange rates, it is deemed to be Level 2.

6. GOODWILL AND INTANGIBLE ASSETS

Goodwill

The following table provides a rollforward of the Company's goodwill:

	Decer	nber 31, 2016	Acquisitions / (Divestitures)	Fore	ign Exchange	Sep	otember 30, 2017
			(in tho	usands)			
RMS	\$	56,397	\$ _	\$	1,262	\$	57,659
DSA		563,476	12,523		26,072		602,071
Manufacturing		167,644	(36,000)		8,873		140,517
Total	\$	787,517	\$ (23,477)	\$	36,207	\$	800,247

The increase in goodwill during the nine months ended September 30, 2017 related primarily to the acquisition of Brains On-Line in the DSA reportable segment, and the favorable impact of foreign exchange, partially offset by the divestiture of the CDMO business in the Manufacturing reportable segment.

Intangible Assets, Net

The following table displays intangible assets, net by major class:

	September 30, 2017					December 31, 2016						
	Accumulated Gross Amortization Net				Accumulated Gross Amortization					Net		
			(in thousands)									
Backlog	\$	8,065	\$	(7,751)	\$	314	\$	8,370	\$	(6,390)	\$	1,980
Technology		80,256		(23,865)		56,391		71,425		(14,314)		57,111
Trademarks and trade names		8,617		(4,417)		4,200		8,177		(4,124)		4,053
Other		17,404		(7,244)		10,160		16,775		(5,628)		11,147
Other intangible assets		114,342		(43,277)		71,065		104,747		(30,456)		74,291
Client relationships		535,814		(231,432)		304,382		519,123		(198,966)		320,157
Intangible assets	\$	650,156	\$	(274,709)	\$	375,447	\$	623,870	\$	(229,422)	\$	394,448

During the nine months ended September 30, 2017, the Company divested the CDMO business, which resulted in a net decrease of \$16.8 million and \$0.3 million to client relationships and backlog, respectively. During the three months ended March 26, 2016, the Company determined that the carrying values of certain DSA intangible assets were not recoverable and recorded an impairment charge of \$1.9 million, which was included in costs of services provided (excluding amortization of intangible assets) within the unaudited condensed consolidated statements of income.

7. LONG-TERM DEBT AND CAPITAL LEASE OBLIGATIONS

Long-Term Debt

Long-term debt, net consists of the following:

	 September 30, 2017	D	ecember 31, 2016					
	(in thousands)							
Term loans	\$ 609,375	\$	633,750					
Revolving credit facility	545,373		578,759					
Other long-term debt	3,675		185					
Total debt	1,158,423		1,212,694					
Less: current portion of long-term debt	(24,481)		(24,560)					
Long-term debt	1,133,942		1,188,134					
Debt discount and debt issuance costs	(6,233)		(7,633)					
Long-term debt, net	\$ 1,127,709	\$	1,180,501					

As of September 30, 2017 and December 31, 2016, the weighted average interest rate on the Company's debt was 2.26% and 1.89%, respectively.

On March 30, 2016, the Company amended and restated its credit facility creating a \$1.65 billion credit facility (\$1.65B Credit Facility). In connection with the amendment and restatement, the Company expensed \$1.0 million of debt issuance costs in the nine months ended September 24, 2016.

The \$1.65B Credit Facility provides for a \$650.0 million term loan and a \$1.0 billion multi-currency revolving facility. The term loan facility matures in 19 quarterly installments with the last installment due March 30, 2021. The revolving facility matures on March 30, 2021, and requires no scheduled payment before that date. Under specified circumstances, the Company has the ability to increase the term loan and/or revolving facility by up to \$500.0 million in the aggregate.

The interest rates applicable to the term loan and revolving facility under the \$1.65B Credit Facility are, at the Company's option, equal to either the base rate (which is the higher of (1) the prime rate, (2) the federal funds rate plus 0.50%, or (3) the one-month adjusted LIBOR rate plus 1.0%) or the adjusted LIBOR rate, plus an interest rate margin based upon the Company's leverage ratio.

The \$1.65B Credit Facility includes certain customary representations and warranties, events of default, notices of material adverse changes to the Company's business and negative and affirmative covenants. These covenants include (1) maintenance of a ratio of consolidated earnings before interest, taxes, depreciation and amortization (EBITDA) less capital expenditures to consolidated cash interest expense, for any period of four consecutive fiscal quarters, of no less than 3.50 to 1.0 as well as (2) maintenance of a ratio of consolidated indebtedness to consolidated EBITDA for any period of four consecutive fiscal quarters, of no more than 3.75 to 1.0 with step downs to 3.50 to 1.0 by the last day of the three months ended December 30, 2017. As of September 30, 2017, the Company was compliant with all covenants.

The obligations of the Company under the \$1.65B Credit Facility are collateralized by substantially all of the assets of the Company.

Letters of Credit

As of September 30, 2017 and December 31, 2016, the Company had \$4.9 million in outstanding letters of credit.

Capital Lease Obligations

The Company's capital lease obligations amounted to \$30.9 million and \$29.9 million as of September 30, 2017 and December 31, 2016, respectively.

8. EQUITY AND REDEEMABLE NONCONTROLLING INTEREST

Earnings Per Share

The following table reconciles the numerator and denominator in the computations of basic and diluted earnings per share:

		Three Mo	nths En	ded	Nine Months Ended			
	Septen	nber 30, 2017	Sept	ember 24, 2016	Sep	tember 30, 2017	September 24, 2016	
				(in tho	usand	s)		
Numerator:								
Income from continuing operations, net of income taxes	\$	52,994	\$	37,691	\$	154,630	\$	110,811
Income (loss) from discontinued operations, net of income taxes		(39)		342		(114)		328
Less: Net income attributable to noncontrolling interests		481		298		1,312		1,054
Net income attributable to common shareholders	\$	52,474	\$	37,735	\$	153,204	\$	110,085
Denominator:								
Weighted-average shares outstanding - Basic		47,451		47,160		47,530		46,954
Effect of dilutive securities:								
Stock options, restricted stock units, performance share units and restricted stock		939		874		910		884
Weighted-average shares outstanding - Diluted		48,390		48,034		48,440		47,838

Options to purchase 0.4 million and 0.6 million shares for the three months ended September 30, 2017 and September 24, 2016, respectively, as well as an insignificant number of restricted shares, restricted stock units (RSUs), and performance share units (PSUs), were not included in computing diluted earnings per share because their inclusion would have been anti-dilutive. Options to purchase 0.6 million and 0.9 million shares for the nine months ended September 30, 2017 and September 24, 2016, respectively, as well as an insignificant number of restricted shares, RSUs, and PSUs, were not included in computing diluted earnings per share because their inclusion would have been anti-dilutive. Basic weighted-average shares outstanding for both the nine months ended September 30, 2017 and September 24, 2016 excluded the impact of 1.1 million shares of non-vested restricted stock and RSUs.

Treasury Shares

During the nine months ended September 30, 2017, the Company repurchased 1.0 million shares totaling \$90.6 million under its authorized stock repurchase program. No shares were repurchased in the nine months ended September 24, 2016. On May 9, 2017, the Company's Board of Directors increased the stock repurchase authorization by \$150 million, to an aggregate amount of \$1.3 billion. As of September 30, 2017, the Company had \$129.1 million remaining on the authorized stock repurchase program. The Company's stock-based compensation plans permit the netting of common stock upon vesting of restricted stock, RSUs, and PSUs in order to satisfy individual statutory tax withholding requirements. During the nine months ended September 30, 2017 and September 24, 2016, the Company acquired 0.2 million shares for \$16.3 million and 0.2 million shares for \$12.2 million, respectively, from such netting.

Accumulated Other Comprehensive Income

Changes to each component of accumulated other comprehensive income, net of income taxes, are as follows:

	Foreig	n Currency Translation Adjustment and Other	Pension and Other Post- Retirement Benefit Plans	Total
			(in thousands)	
December 31, 2016	\$	(154,595)	\$ (99,169)	\$ (253,764)
Other comprehensive loss before reclassifications		68,590	_	68,590
Amounts reclassified from accumulated other				
comprehensive income (loss)		_	2,638	2,638
Net current period other comprehensive income		68,590	2,638	71,228
Income tax expense		_	776	776
September 30, 2017	\$	(86,005)	\$ (97,307)	\$ (183,312)

Nonredeemable Noncontrolling Interest

The Company has an investment in an entity whose financial results are consolidated in the Company's financial statements, as it has the ability to exercise control over this entity. The interest of the noncontrolling party in this entity has been recorded as noncontrolling interest. The activity within the nonredeemable noncontrolling interest during the three months ended September 30, 2017 and September 24, 2016 was \$0.3 million and \$0.1 million, respectively. The activity within the nonredeemable noncontrolling interest during the nine months ended September 30, 2017 and September 24, 2016 was \$0.8 million and \$0.4 million, respectively.

Redeemable Noncontrolling Interest

The Company's redeemable noncontrolling interest resulted from an acquisition of a 75% ownership interest in Vital River in January 2013 and a purchase of an additional 12% equity interest in Vital River in July 2016, totaling an ownership of 87%. Prior to the purchase of an additional 12% equity interest on July 7, 2016, the redeemable noncontrolling interest was reported at fair value.

Concurrent with the purchase of an additional equity interest, the original agreement was amended providing the Company with the right to purchase, and the noncontrolling interest holders with the right to sell, the remaining 13% equity interest at a contractually defined redemption value, subject to a redemption floor (embedded derivative). These rights are exercisable beginning in 2019 and are accelerated in certain events. The redeemable noncontrolling interest is measured at the greater of the amount that would be paid if settlement occurred as of the balance sheet date based on the contractually defined redemption value (\$15.0 million as of September 30, 2017) and its carrying amount adjusted for net income (loss) attributable to the noncontrolling interest. As the noncontrolling interest holders have the ability to require the Company to purchase the remaining 13% interest, the noncontrolling interest is classified in the mezzanine section of the unaudited condensed consolidated balance sheets, which is presented above the equity section and below liabilities. The agreement does not limit the amount that the Company could be required to pay to purchase the remaining 13% equity interest.

The following table provides a rollforward of the activity related to the Company's redeemable noncontrolling interest:

		Nine Months Ended						
	Septem	ber 30, 2017	Sej	otember 24, 2016				
	(in thousands)							
Beginning balance	\$	14,659	\$	28,008				
Purchase of 12% equity interest		_		(12,360)				
Total gains or losses (realized/unrealized):								
Net income attributable to noncontrolling interest		474		462				
Foreign currency translation		652		(875)				
Modification of 13% purchase option		_		1,495				
Change in fair value, included in additional paid-in capital		_		(1,690)				
Ending balance	\$	15,785	\$	15,040				
Change in fair value, included in additional paid-in capital	\$		\$	(1,690)				

9. INCOME TAXES

The Company's effective tax rate for the three months ended September 30, 2017 and September 24, 2016 was 27.3% and 29.2%, respectively. The Company's effective tax rate for the nine months ended September 30, 2017 and September 24, 2016 was 32.2% and 30.4%, respectively. For the three months ended September 30, 2017, the decrease was primarily attributable to a tax benefit of \$1.2 million related to the settlement of competent authority proceedings, and the excess tax benefit associated with stock compensation of \$0.9 million as a result of the adoption of ASU 2016-09. For the nine months ended September 30, 2017, the increase was primarily attributable to the tax on the gain on the divestiture of the CDMO business of \$18.0 million, offset by the excess tax benefit associated with stock compensation of \$9.7 million as a result of the adoption of ASU 2016-09.

During the three months ended September 30, 2017, the Company's unrecognized income tax benefits decreased by \$0.8 million to \$25.2 million, primarily due to the settlement of competent authority proceedings offset by unfavorable foreign exchange movement. The amount of unrecognized income tax benefits that would impact the effective tax rate increased by \$0.3 million to \$23.2 million. As of September 30, 2017, the amount of accrued interest and penalties on unrecognized tax benefits was \$2.6 million. The Company estimates that it is reasonably possible that the unrecognized tax benefits will decrease by up to \$0.9 million over the next twelve-month period, primarily as a result of the outcome of a pending tax ruling.

The Company conducts business in a number of tax jurisdictions. As a result, it is subject to tax audits in jurisdictions including the U.S., U.K., China, Japan, France, Germany, and Canada. With few exceptions, the Company is no longer subject to U.S. and international income tax examinations for years before 2013.

The Company and certain of its subsidiaries have ongoing tax controversies with various tax authorities in the U.S., Canada, Germany, and France. The Company does not believe that resolution of these controversies will have a material impact on its financial position or results of operations.

In accordance with the Company's policy, the remaining undistributed earnings of its non-U.S. subsidiaries remain indefinitely reinvested as of September 30, 2017, as they are required to fund needs outside the U.S. and cannot be repatriated in a manner that is substantially tax free.

Income tax expense related to changes in unrecognized pension gains, losses, and prior service costs was \$0.2 million and \$0.1 million for the three months ended September 30, 2017 and September 24, 2016, respectively. Income tax expense related to changes in unrecognized pension gains, losses, and prior service costs was \$0.8 million and \$0.4 million for the nine months ended September 30, 2017 and September 24, 2016, respectively.

10. PENSION AND OTHER POST-RETIREMENT BENEFIT PLANS

The following table provides the components of net periodic cost for the Company's pension, deferred compensation and executive supplemental life insurance retirement plans:

	Three Months Ended					Nine Months Ended			
	September 30, 2017		September 24, 2016		September 30, 2017		Se	ptember 24, 2016	
				(in the	ousai	nds)			
Service cost	\$	749	\$	655	\$	2,277	\$	1,848	
Interest cost		2,663		2,773		8,428		9,357	
Expected return on plan assets		(3,476)		(3,038)		(10,411)		(11,028)	
Amortization of prior service credit		(134)		(142)		(392)		(430)	
Amortization of net loss		1,017		503		3,030		1,594	
Settlements		_		788		_		788	
Net periodic cost	\$	819	\$	1,539	\$	2,932	\$	2,129	

The net periodic cost for the Company's post-retirement benefit plan for the three and nine months ended September 30, 2017 and September 24, 2016 was not significant.

11. STOCK-BASED COMPENSATION

The Company has stock-based compensation plans under which employees and non-employee directors may be granted stock-based awards such as stock options, restricted stock, RSUs, and PSUs.

The following table provides stock-based compensation by the financial statement line item in which it is reflected:

	Three Months Ended					Nine Mor	ths E	ths Ended		
	September 30, 2017			September 24, 2016		ptember 30, 2017	Se	eptember 24, 2016		
	(in thousands)									
Cost of revenue	\$	1,700	\$	1,608	\$	4,989	\$	4,957		
Selling, general and administrative		9,826		8,992		27,913		27,690		
Stock-based compensation, before income taxes		11,526		10,600		32,902		32,647		
Provision for income taxes		(4,099)		(3,785)		(11,683)		(11,653)		
Stock-based compensation, net of income taxes	\$	7,427	\$	6,815	\$	21,219	\$	20,994		

During the nine months ended September 30, 2017, the Company granted stock options representing 0.6 million common shares with a per-share weighted-average grant date fair value of \$18.30, RSUs representing 0.2 million common shares with a per-share weighted-average grant date fair value of \$88.52, and PSUs representing 0.2 million common shares with a per-share weighted-average grant date fair value of \$99.24. The maximum number of common shares to be issued upon vesting of PSUs granted during the nine months ended September 30, 2017 is 0.4 million.

12. FOREIGN CURRENCY CONTRACTS

The Company enters into foreign exchange forward contracts to limit its foreign currency exposure related to intercompany loans that are not of a long-term investment nature. These contracts are recorded at fair value in the Company's unaudited condensed consolidated balance sheets and are not designated as hedging instruments. Any gains or losses on such contracts are immediately recognized in other income, net, and are largely offset by the remeasurement of the underlying intercompany loan balances.

The Company did not have any foreign currency contracts open as of September 30, 2017 and December 31, 2016.

The following table summarizes gains recognized on foreign exchange forward contracts related to intercompany loans denominated in Euros on the Company's unaudited condensed consolidated statements of income:

	Three Mo	nths Ended	Nine Mo	nths Ended
Location of Gain	September 30, 2017	September 24, 2016	September 30, 2017	September 24, 2016
		(in tho	usands)	
Other income, net	\$ —	\$ —	\$ —	\$ 3,373

13. COMMITMENTS AND CONTINGENCIES

Litigation

Various lawsuits, claims and proceedings of a nature considered normal to its business are pending against the Company. While the outcome of any of these proceedings cannot be accurately predicted, the Company does not believe the ultimate resolution of any of these existing matters would have a material adverse effect on the Company's business or financial condition.

Lease Commitments

During the nine months ended September 30, 2017, the Company assumed or entered into new lease agreements or exercised options to extend the lease terms for certain existing leases. As a result, the Company's lease obligations through 2032 increased by \$37.9 million during the nine months ended September 30, 2017.

14. RESTRUCTURING AND ASSET IMPAIRMENTS

Workforce Reductions

In recent fiscal years, the Company has been undertaking productivity improvement initiatives at various facilities. The following table provides a rollforward of the Company's severance and transition costs liabilities related to those initiatives:

	Three Months Ended					Nine Mont	hs Ended		
	September 30, 2017			September 24, 2016		September 30, 2017	9	September 24, 2016	
				(in tho	ısan	ds)			
Beginning balance	\$	4,004	\$	3,678	\$	3,680	\$	2,969	
Expense		690		4,015		2,900		8,135	
Payments / utilization		(991)		(2,323)		(3,084)		(5,676)	
Foreign currency adjustments		103		2		310		(56)	
Ending balance	\$	3,806	\$	5,372	\$	3,806	\$	5,372	

As of September 30, 2017, \$3.4 million of severance and other personnel related costs liabilities were included in accrued compensation within the Company's unaudited condensed consolidated balance sheets.

The following table presents severance and transition costs by classification within the unaudited condensed consolidated statements of income:

	-	Three Months Ended				Nine Months Ended			
	Septemb	oer 30, 2017	September 24, 2016		September 30, 2017		Septe	ember 24, 2016	
				(in the	ousands)				
Cost of services provided and products sold (excluding amortization of intangible assets)	\$	240	\$	3,985	\$	1,717	\$	4,478	
Selling, general and administrative		450		30		1,183		3,657	
Total severance and transition costs	\$	690	\$	4,015	\$	2,900	\$	8,135	

The following presents severance and transition related costs by reportable segment:

	Three Months Ended					Nine Months Ended					
	Septemb	er 30, 2017	September 24, 2016		Sept	ember 30, 2017	September 24, 2016				
			(in thousands)								
RMS	\$	108	\$	618	\$	291	\$	618			
DSA		135		3,367		675		7,487			
Manufacturing		472		30		1,799		30			
Unallocated corporate		(25)		_		135		_			
Total severance and transition costs	\$	690	\$	4,015	\$	2,900	\$	8,135			

Facilities

During the three months ended September 30, 2017, the Company continued the consolidation of certain DSA facilities in the U.S., Ireland, and the U.K. As a result, the Company recorded an asset impairment charge of \$0.1 million and accelerated depreciation charges of \$0.1 million related to the consolidation plans. During the three months ended September 24, 2016, the Company recorded an asset impairment charge of \$4.3 million, other costs of \$0.8 million, and accelerated depreciation charges of \$0.1 million related to these activities. During the nine months ended September 30, 2017, the Company recorded other costs of \$0.4 million, asset impairment charges of \$0.3 million, and accelerated depreciation charges of \$0.2 million related to the consolidation plans. During the nine months ended September 24, 2016, the Company recorded an asset impairment charge of \$4.3 million, other costs of \$0.8 million, and accelerated depreciation charges of \$0.5 million related to these activities.

On November 8, 2017, as part of the Company's efficiency initiatives, the Company committed to a plan to close its RMS production facility in Maryland before the end of 2018 and consolidate production in other facilities. The plan will result in costs incurred in the range of \$18 million to \$24 million in the fourth quarter of 2017 through fiscal 2018, primarily related to asset impairments (up to approximately \$17 million), accelerated lease obligations (up to approximately \$5 million), as well as severance, accelerated depreciation, and site consolidation costs. The majority of the costs are non-cash and are expected to be incurred in the fourth quarter of 2017. The cash portion of the costs are not expected to exceed \$6 million.

15. SEGMENT INFORMATION

The Company's three reportable segments are Research Models and Services (RMS), Discovery and Safety Assessment (DSA), and Manufacturing Support (Manufacturing).

The following table presents revenue and other financial information by reportable segment:

		Three Mo	nths E	Ended	Nine Months Ended					
	Sept	tember 30, 2017	September 24, 2016	Sep	tember 30, 2017	S	September 24, 2016			
				(in the	usands)					
RMS										
Revenue	\$	122,020	\$	120,928	\$	373,183	\$	369,325		
Operating income		30,726		31,224		102,016		103,055		
Depreciation and amortization		5,272		5,245		15,309		15,613		
Capital expenditures		6,762		2,532		13,769		5,966		
DSA										
Revenue	\$	246,946	\$	215,817	\$	726,796	\$	594,859		
Operating income		46,616		31,303		136,966		94,514		
Depreciation and amortization		20,333		20,671		58,667		51,228		
Capital expenditures		10,127		4,509		25,552		13,860		
Manufacturing										
Revenue	\$	95,266	\$	88,975	\$	279,145	\$	250,459		
Operating income		31,923		26,711		87,565		73,447		
Depreciation and amortization		5,572		6,181		17,321		18,682		
Capital expenditures		2,879		1,862		7,111		8,247		

For the three months ended September 30, 2017 and September 24, 2016, reconciliations of segment operating income, depreciation and amortization, and capital expenditures to the respective consolidated amounts are as follows:

		Operating Income			Depreciation and Amortization				Capital Expenditures			
	Se	ptember 30, 2017	September 24, 2016		Sept	ember 30, 2017	S	September 24, 2016		September 30, 2017		ember 24, 2016
						(in tho						
Total reportable												
segments	\$	109,265	\$	89,238	\$	31,177	\$	32,097	\$	19,768	\$	8,903
Unallocated corporate		(35,281)		(30,443)		2,288		2,011		2,243		665
Total consolidated	\$	73,984	\$	58,795	\$	33,465	\$	34,108	\$	22,011	\$	9,568

For the nine months ended September 30, 2017 and September 24, 2016, reconciliations of segment operating income, depreciation and amortization, and capital expenditures to the respective consolidated amounts are as follows:

	Operating Income			Depreciation and Amortization				Capital Expenditures					
	Se	ptember 30, 2017			Sept	ember 30, 2017	September 24, 2016		September 30, 2017		September 24, 2016		
				(in thousands)									
Total reportable segments	\$	326,547	\$	271,016	\$	91,297	\$	85,523	\$	46,432	\$	28,073	
Unallocated corporate		(101,781)		(102,688)		6,378		5,593		7,496		1,536	
Total consolidated	\$	224,766	\$	168,328	\$	97,675	\$	91,116	\$	53,928	\$	29,609	

Revenue for each significant product or service offering is as follows:

		Three Mo	nths End	led	Nine Months Ended					
	Septe	mber 30, 2017	Sept	tember 24, 2016	Sep	tember 30, 2017	Sep	tember 24, 2016		
				(in the	usands)					
RMS	\$	122,020	\$	120,928	\$	373,183	\$	369,325		
DSA		246,946		215,817		726,796		594,859		
Manufacturing		95,266		88,975		279,145		250,459		
Total revenue	\$	464,232	\$	425,720	\$	1,379,124	\$	1,214,643		

A summary of unallocated corporate expense consists of the following:

		Three Mo	nths	Ended	Nine Months Ended					
	Sep	tember 30, 2017	:	September 24, 2016	September 30, 2017			September 24, 2016		
				(in tho	usanc	ls)				
Stock-based compensation	\$	7,255	\$	6,739	\$	20,259	\$	20,593		
Compensation, benefits, and other employee-related expenses		11,771		9,048		37,812		29,327		
External consulting and other service expenses		6,729		4,545		16,581		16,377		
Information technology		3,237		2,903		9,247		8,399		
Depreciation		2,287		2,011		6,378		5,593		
Acquisition and integration		1,327		2,033		2,539		13,056		
Other general unallocated corporate		2,675		3,164		8,965		9,343		
Total unallocated corporate expense	\$	35,281	\$	30,443	\$	101,781	\$	102,688		

Other general unallocated corporate expense consists of various departmental costs including those associated with departments such as senior executives, corporate accounting, legal, tax, human resources, treasury, and investor relations.

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

The following discussion should be read in conjunction with our unaudited condensed consolidated financial statements and accompanying notes of this Quarterly Report on Form 10-Q and our audited consolidated financial statements and related notes included in our Annual Report on Form 10-K for fiscal year 2016. The following discussion contains forward-looking statements. Actual results may differ significantly from those projected in the forward-looking statements. Factors that might cause future results to differ materially from those projected in the forward-looking statements include, but are not limited to, those discussed in "Risk Factors" in our Annual Report on Form 10-K for fiscal year 2016. Certain percentage changes may not recalculate due to rounding.

Overview

We are a full service, early-stage contract research organization (CRO). For 70 years, we have been in the business of providing the research models required in research and development of new drugs, devices, and therapies. Over this time, we have built upon our original core competency of laboratory animal medicine and science (research model technologies) to develop a diverse portfolio of discovery and safety assessment services, both Good Laboratory Practice (GLP) and non-GLP, that enable us to support our clients from target identification through non-clinical development. We also provide a suite of products and services to support our clients' manufacturing activities. Utilizing our broad portfolio of products and services enables our clients to create a more flexible drug development model, which reduces their costs, enhances their productivity and effectiveness, and increases speed to market.

Our client base includes all major global biopharmaceutical companies, many biotechnology companies, CROs, agricultural and industrial chemical companies, life science companies, veterinary medicine companies, contract manufacturing companies, medical device companies, and diagnostic and other commercial entities, as well as leading hospitals, academic institutions, and government agencies around the world.

Segment Reporting

Our three reportable segments are Research Models and Services (RMS), Discovery and Safety Assessment (DSA), and Manufacturing Support (Manufacturing). Our RMS reportable segment includes the commercial production and sale of small research models, as well as the supply of large research models. RMS services includes: Genetically Engineered Models and Services (GEMS), which performs contract breeding and other services associated with genetically engineered models; Research Animal Diagnostic Services (RADS), which provides health monitoring and diagnostics services related to research models; and Insourcing Solutions (IS), which provides colony management of our clients' research operations (including recruitment, training, staffing, and management services). Our DSA reportable segment includes services required to take a drug through the early development process including discovery services, which are non-regulated services to assist clients with the identification, screening, and selection of a lead compound for drug development, and regulated and non-regulated (GLP and non-GLP) safety assessment services. Our Manufacturing reportable segment includes Microbial Solutions, which provides *in vitro* (non-animal) lot-release testing products, microbial detection products, and species identification services; Biologics Testing Services (Biologics), which performs specialized testing of biologics; Avian Vaccine Services (Avian), which supplies specific-pathogen-free chicken eggs and chickens; and contract development and manufacturing (CDMO) services, which, until we divested this business on February 10, 2017, allowed us to provide formulation design and development, manufacturing, and analytical and stability testing for small molecules.

Recent Acquisitions and Divestiture

Our strategy is to augment internal growth of existing businesses with complementary acquisitions. Our principal recent acquisitions and divestiture are described below.

On August 4, 2017, we acquired Brains On-Line, a leading CRO providing critical data that advances novel therapeutics for the treatment of central nervous system (CNS) diseases. Brains On-Line strategically expands our existing CNS capabilities and establishes us as a single-source provider for a broad portfolio of discovery CNS services. The purchase price for Brains On-Line was \$21.3 million in cash, subject to certain post-closing adjustments. In addition to the initial purchase price, the transaction includes potential additional payments of up to €6.7 million (approximately \$7.9 million based on current exchange rates), based on future performance. The Brains On-Line business is reported as part of our DSA reportable segment.

On September 28, 2016, we acquired Agilux Laboratories, Inc. (Agilux), a CRO that provides a suite of integrated discovery bioanalytical services for small and large molecules, drug metabolism and pharmacokinetic services, and pharmacology services. The acquisition supports our strategy to offer clients a broader, integrated portfolio that provides services continuously from the earliest stages of drug research through the non-clinical development process. The purchase price for Agilux was \$64.9 million in cash and was funded by borrowings on our revolving credit facility. The business is reported in our DSA reportable segment.

On June 27, 2016, we acquired Blue Stream Laboratories, Inc. (Blue Stream), an analytical CRO supporting the development of complex biologics and biosimilars. Combining Blue Stream with our existing discovery, safety assessment, and biologics

capabilities created a leading CRO that has the ability to support biologic and biosimilar development from characterization through clinical testing and commercialization. The purchase price for Blue Stream was \$11.7 million, including \$3.0 million in contingent consideration, and was subject to certain customary adjustments. The acquisition was funded by borrowings on our revolving credit facility. The business is reported in our Manufacturing reportable segment.

On April 4, 2016, we acquired WIL Research, a provider of safety assessment and CDMO services to biopharmaceutical, agricultural, and industrial chemical companies worldwide. The acquisition enhanced our position as a leading, global, early-stage CRO by strengthening our ability to partner with clients across the drug discovery and development continuum. The purchase price for WIL Research was \$604.8 million, including assumed liabilities of \$0.4 million. The purchase price included payment for actual working capital of the acquired business. The acquisition was funded by cash on hand and borrowings on our \$1.65 billion credit facility (\$1.65B Credit Facility). WIL Research's safety assessment and CDMO businesses are reported in our DSA and Manufacturing reportable segments, respectively. Following a strategic review that was finalized subsequent to our December 31, 2016 year end, we determined that the CDMO business was not optimized within our portfolio at its current scale, and that the capital could be better deployed in other long-term growth opportunities. On February 10, 2017, we completed the divestiture of our CDMO business to Quotient Clinical Ltd., based in London, England, for \$75.0 million in proceeds, net of cash, cash equivalents, and working capital adjustments.

Overview of Results of Operations and Liquidity

Revenue for the three months ended September 30, 2017 was \$464.2 million compared to \$425.7 million in the corresponding period in 2016. This increase of \$38.5 million, or 9.0%, was primarily due to growth in our DSA and Manufacturing segments. The positive effect of changes in foreign currency exchange rates increased revenue by \$4.3 million, or 1.0%, when compared to the corresponding period in 2016. Revenue for the nine months ended September 30, 2017 was \$1,379.1 million compared to \$1,214.6 million in the corresponding period in 2016. This increase of \$164.5 million, or 13.5%, was primarily due to growth in our DSA and Manufacturing segments, which was partially offset by the negative effect of changes in foreign currency exchange rates which decreased revenue by \$11.6 million, or 1.0%.

In the three months ended September 30, 2017, our operating income and operating income margin were \$74.0 million and 15.9%, respectively, compared with \$58.8 million and 13.8%, respectively, in 2016. In the nine months ended September 30, 2017, our operating income and operating income margin were \$224.8 million and 16.3%, respectively, compared with \$168.3 million and 13.9%, respectively, in 2016. The increases in operating income and operating income margin were primarily due to increased demand in our DSA segment, the effects of our recent acquisitions, and various productivity initiatives.

Net income attributable to common stockholders increased to \$52.5 million in the three months ended September 30, 2017, from \$37.7 million in the corresponding period of 2016. Net income attributable to common stockholders increased to \$153.2 million in the nine months ended September 30, 2017, from \$110.1 million in the corresponding period of 2016. The increase in net income attributable to common stockholders was primarily due to the reasons discussed above. In addition, the increase in net income included a gain on the CDMO divestiture and higher gains on our venture capital investments, partially offset by an increase in the provision for income taxes.

During the first nine months of 2017, our cash flow from operations was \$193.8 million compared with \$198.3 million for 2016. The decrease was primarily driven by negative changes in operating assets and liabilities due to the timing of our accounts payable and accrued compensation payments, a gain on divestiture, and a decrease in deferred revenue. These decreases were partially offset by an increase in income from continuing operations.

In November 2017, as part of our efficiency initiatives, we committed to a plan to close our RMS production facility in Maryland before the end of 2018 and consolidate production in other facilities. The plan will result in costs incurred in the range of \$18 million to \$24 million in the fourth quarter of 2017 through fiscal 2018, primarily related to asset impairments, accelerated lease obligations, severance, accelerated depreciation, and site consolidation costs. The majority of the costs are non-cash and are expected to be incurred in the fourth quarter of 2017.

Results of Operations

Three Months Ended September 30, 2017 Compared to the Three Months Ended September 24, 2016

Revenue

The following tables present consolidated revenue by type and by reportable segment:

		Three Mo	nths E	nded			
	Septe	mber 30, 2017	Sep	tember 24, 2016		\$ change	% change
				(in millions, exc	ept pe	rcentages)	
Service revenue	\$	326.7	\$	292.8	\$	33.9	11.6%
Product revenue		137.5		132.9		4.6	3.5%
Total revenue	\$	464.2	\$	425.7	\$	38.5	9.0%

		Three Mo	nths En	ded							
	September 30, 2017 September 24, 2016					\$ change	% change	Impact of FX			
	(in millions, except percentages)										
RMS	\$	122.0	\$	120.9	\$	1.1	0.9%	0.5%			
DSA		246.9		215.8		31.1	14.4%	0.9%			
Manufacturing		95.3		89.0		6.3	7.1%	1.8%			
Total revenue	\$	464.2	\$	425.7	\$	38.5	9.0%	1.0%			

RMS revenue increased by \$1.1 million due primarily to higher research model product revenue in China, higher research model services revenue attributable to the IS and GEMS businesses, and the positive effect of changes in foreign currency exchange rates; partially offset by lower research model product revenue outside of China, and lower service revenue in the RADS business.

DSA revenue increased \$31.1 million due primarily to increased demand from mid-tier biotechnology clients. The Safety Assessment business had higher service revenue as a result of growth of the business, including favorable volume, mix of services, and pricing; and the Discovery Services business had higher service revenue, primarily as a result of the acquisitions of Agilux and Brains On-Line that contributed \$10.3 million and \$1.5 million to service revenue growth, respectively. The positive effect of changes in foreign currency exchange rates also contributed to the increase in DSA revenue.

Manufacturing revenue increased \$6.3 million due primarily to higher demand for endotoxin products in the Microbial Solutions business, increased demand in the Biologics business, and by the positive effect of changes in foreign currency exchange rates; partially offset by the absence of revenue related to the CDMO business of WIL Research, that contributed \$3.8 million of service revenue in the corresponding period in 2016.

Cost of Services Provided and Products Sold (Excluding Amortization of Intangible Assets)

The following tables present consolidated cost of services provided and products sold (excluding amortization of intangible assets) (Costs) by type and by reportable segment:

	Three Months Ended						
	September 30, 2017			tember 24, 2016		\$ change	% change
				(in millions, ex	cept p	ercentages)	
Cost of services provided	\$	219.3	\$	200.1	\$	19.2	9.6 %
Cost of products sold		67.7		69.4		(1.7)	(2.4)%
Total cost of services provided and products sold (excluding amortization of intangible assets)	\$	287.0	\$	269.5	\$	17.5	6.5 %

	Three Months Ended						
	September 30, 2017		Sep	tember 24, 2016		\$ change	% change
				(in millions, ex	cept percentages)		
RMS	\$	75.7	\$	73.0	\$	2.7	3.7%
DSA		167.0		152.5		14.5	9.5%
Manufacturing		44.3		44.0		0.3	0.9%
Total cost of services provided and products sold (excluding amortization of intangible assets)	\$	287.0	\$	269.5	\$	17.5	6.5%

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Costs for the three months ended September 30, 2017 increased \$17.5 million, or 6.5%, compared to the corresponding period in 2016. Costs as a percentage of revenue for the three months ended September 30, 2017 were 61.8%, a decrease of 1.5% from 63.3% for the corresponding period in 2016.

RMS Costs increased \$2.7 million due primarily to increased employee compensation costs and increased facility investments in China. RMS Costs as a percentage of revenue for the three months ended September 30, 2017 were 62.0%, an increase of 1.6% from 60.4% for the corresponding period in 2016.

DSA Costs increased \$14.5 million due primarily to an increase in Safety Assessment Costs due to growth of the business, and higher compensation costs; an increase in Discovery Services Costs, which included a higher service cost base due to the acquisitions of Agilux and Brains On-Line, as well as increased compensation costs; and the unfavorable effect of changes in foreign currency exchange rates. DSA Costs as a percentage of revenue for the three months ended September 30, 2017 were 67.6%, a decrease of 3.1% from 70.7% for the corresponding period in 2016, due primarily to higher volume and productivity improvements.

Manufacturing Costs increased \$0.3 million due primarily to an increase in Biologics Costs resulting from growth of the business; and by the unfavorable effect of changes in foreign currency exchange rates; partially offset by a decrease in CDMO Costs related to the divestiture of the CDMO business. Manufacturing Costs as a percentage of revenue for the three months ended September 30, 2017 were 46.5%, a decrease of 2.9% from 49.4% for the corresponding period in 2016, due primarily to the divestiture of the CDMO business, higher volume, and productivity improvements.

Selling, General and Administrative Expenses

		Three Mo	nths E	nded			
	Septen	nber 30, 2017	Sept	September 24, 2016		\$ change	% change
				(in millions, ex	cept p	ercentages)	
RMS	\$	15.2	\$	16.1	\$	(0.9)	(5.9)%
DSA		25.7		23.5		2.2	9.8 %
Manufacturing		16.7		15.7		1.0	6.5 %
Unallocated corporate		35.3		30.4		4.9	15.9 %
Total selling, general and administrative	\$	92.9	\$	85.7	\$	7.2	8.4 %

Selling, general and administrative expenses (SG&A) for the three months ended September 30, 2017 increased \$7.2 million, or 8.4%, compared to the corresponding period in 2016. SG&A as a percentage of revenue for the three months ended September 30, 2017 was 20.0%, a decrease of 0.1%, from 20.1% for the corresponding period in 2016.

The decrease in RMS SG&A of \$0.9 million was primarily related to expense controls. RMS SG&A as a percentage of revenue for the three months ended September 30, 2017 was 12.4%, a decrease of 0.9% from 13.3% for the corresponding period in 2016.

The increase in DSA SG&A of \$2.2 million was primarily related to an increase in compensation, benefits, and other employee-related expenses to support the growth of the business. DSA SG&A as a percentage of revenue for the three months ended September 30, 2017 was 10.4%, a decrease of 0.5% from 10.9% for the corresponding period in 2016.

The increase in Manufacturing SG&A of \$1.0 million was primarily related to an increase in compensation, benefits, and other employee-related expenses to support the growth of the business. Manufacturing SG&A as a percentage of revenue for the three months ended September 30, 2017 was 17.5%, a decrease of 0.1% from 17.6% for the corresponding period in 2016.

The increase in unallocated corporate SG&A of \$4.9 million was related to an increase in compensation, benefits, and other employee-related expenses and an increase in planned investments in IT projects.

Amortization of Intangible Assets

Amortization of intangible assets for the three months ended September 30, 2017 was \$10.4 million, a decrease of \$1.4 million, or 12.4%, from \$11.8 million for the corresponding period in 2016, due primarily to certain intangible assets becoming fully amortized and the disposal of certain amortizable intangible assets in connection with the CDMO business divestiture; partially offset by the amortization of certain intangible assets acquired in connection with the Brains On-Line and Agilux acquisitions.

Interest Income

Interest income, which represents earnings on cash, cash equivalents, and time deposits, was \$0.1 million and \$0.5 million for the three months ended September 30, 2017 and the corresponding period in 2016, respectively.

Interest Expense

Interest expense for the three months ended September 30, 2017 was \$7.7 million, an increase of \$0.6 million, or 8.3%, compared to \$7.1 million for the corresponding period in 2016. The increase was due primarily to the increase in interest rates in the current period, partially offset by lower average balances outstanding under our \$1.65B Credit Facility compared to the corresponding period in 2016.

Other Income, Net

Other income, net, was \$6.5 million for the three months ended September 30, 2017, an increase of \$5.5 million, or 538.0%, compared to \$1.0 million for the corresponding period in 2016. The increase in other income, net, was driven by higher gains recognized related to our venture capital investments of \$5.4 million and the absence of a \$0.7 million gain on remeasurement of previously held equity interest in an entity acquired in a step acquisition compared to the corresponding period in 2016. The increase was partially offset by the absence of a \$1.5 million charge recorded in the corresponding period in 2016 in connection with the modification of the option to purchase the remaining 13% equity interest in Vital River, and lower net gains on life insurance policy investments of \$0.3 million.

Income Taxes

Income tax expense for the three months ended September 30, 2017 was \$19.9 million, an increase of \$4.3 million compared to \$15.6 million for the corresponding period in 2016. Our effective tax rate was 27.3% for the three months ended September 30, 2017, compared to 29.2% for the corresponding period in 2016. The decrease in our effective tax rate was primarily attributable to a tax benefit of \$1.2 million related to the settlement of competent authority proceedings, and the excess tax benefit associated with stock compensation of \$0.9 million as a result of the adoption of Accounting Standards Update (ASU) 2016-09, "Improvements to Employee Share-Based Payment Accounting".

Nine Months Ended September 30, 2017 Compared to the Nine Months Ended September 24, 2016

Revenue

The following tables present consolidated revenue by type and by reportable segment:

		Nine Mo	nths Er	ıded				
	Septer	nber 30, 2017	Sep	tember 24, 2016		\$ change	% change	
				(in millions, exc	cept p	ercentages)		
Service revenue	\$	960.6	\$	806.4	\$	154.2	19.1%	
Product revenue		418.5		408.2		10.3	2.5%	
Total revenue	\$	1,379.1	\$	1,214.6	\$	164.5	13.5%	

		Nine Mon	ths En	ided							
	Septe	September 30, 2017 September 24, 2016				\$ change	% change	Impact of FX			
		(in millions, except percentages)									
RMS	\$	373.2	\$	369.3	\$	3.9	1.0%	(1.1)%			
DSA		726.8		594.8		132.0	22.2%	(1.1)%			
Manufacturing		279.1		250.5		28.6	11.5%	(0.4)%			
Total revenue	\$	1,379.1	\$	1,214.6	\$	164.5	13.5%	(1.0)%			

RMS revenue increased by \$3.9 million due to higher research model product revenue in China, and higher research model services revenue attributable to the IS and GEMS businesses; partially offset by the negative effect of changes in foreign currency exchange rates and lower service revenue in the RADS business.

DSA revenue increased \$132.0 million due primarily to higher service revenue in the Safety Assessment business as a result of the WIL Research acquisition, which contributed \$62.5 million to service revenue, as well as growth of the legacy business, including favorable volume, mix of services, and pricing; higher service revenue in the Discovery Services business, primarily as a result of the acquisitions of Agilux and Brains On-line that contributed \$28.6 million and \$1.5 million to service revenue, respectively; partially offset by the negative effect of changes in foreign currency exchange rates. Revenue growth was driven by increased demand from mid-tier biotechnology clients and global biopharmaceuticals clients.

Manufacturing revenue increased \$28.6 million due primarily to higher demand for endotoxin products in the Microbial Solutions business; increased demand in the Biologics business, which included the acquisition of Blue Stream that contributed \$3.5 million to service revenue; partially offset by the absence of \$5.8 million of service revenue related to the CDMO business; lower product revenue in the Avian business; and by the negative effect of changes in foreign currency exchange rates.

Cost of Services Provided and Products Sold (Excluding Amortization of Intangible Assets)

The following tables present consolidated costs of services provided and products sold (excluding amortization of intangible assets) by type and by reportable segment:

		Nine Months Ended					
	Septem	ber 30, 2017	17 September 24, 2016		\$ change		% change
		(in millions, exc			cept per	centages)	
Cost of services provided	\$	640.9	\$	543.6	\$	97.3	17.9 %
Cost of products sold		203.7		204.3		(0.6)	(0.3)%
Total cost of services provided and products sold (excluding amortization of intangible assets)	\$	844.6	\$	747.9	\$	96.7	12.9 %
	<u></u>						
		Nine Mor	nths Ende	ed			
	Septen	Nine Mor nber 30, 2017		ed aber 24, 2016		\$ change	% change
	Septen		Septen			. 0	% change
RMS	Septen		Septen	iber 24, 2016		. 0	% change 3.5%
RMS DSA		nber 30, 2017	Septen	iber 24, 2016 in millions, ex	cept pe	rcentages)	
		224.8	Septen	aber 24, 2016 in millions, ex 217.3	cept pe	rcentages) 7.5	3.5%

Costs for the nine months ended September 30, 2017 increased \$96.7 million, or 12.9%, compared to the corresponding period in 2016. Costs as a percentage of revenue for the nine months ended September 30, 2017 remained relatively consistent at 61.2%, a decrease of 0.4% from 61.6% for the corresponding period in 2016.

RMS Costs increased \$7.5 million due primarily to increased employee compensation costs and increased facility investments in China; partially offset by the favorable effect of changes in foreign currency exchange rates. RMS Costs as a percentage of revenue for the nine months ended September 30, 2017 were 60.2%, an increase of 1.4% from 58.8% for the corresponding period in 2016, due primarily to lower research model volume, higher compensation costs, and facility investments.

DSA Costs increased \$78.4 million due primarily to an increase in Safety Assessment Costs, which included a higher service cost base due to the WIL Research acquisition and the growth of the legacy services business, and higher compensation; an increase in Discovery Services Costs, which included a higher service cost base due to the acquisitions of Agilux and Brains On-Line, and higher compensation costs; partially offset by the favorable effect of changes in foreign currency exchange rates. DSA Costs as a percentage of revenue for the nine months ended September 30, 2017 were 67.2%, a decrease of 1.7% from 68.9% for the corresponding period in 2016, due primarily to higher volume and productivity improvements.

Manufacturing Costs increased \$10.8 million due primarily to an increase in Biologics Costs resulting from the growth of the business and the acquisition of Blue Stream; partially offset by a decrease in CDMO Costs related to the divestiture of the CDMO business. Manufacturing Costs as a percentage of revenue for the nine months ended September 30, 2017 were 47.1%, a decrease of 1.1% from 48.2% for the corresponding period in 2016, due primarily to higher volume and productivity improvements.

		Nine Mor	nths E	nded			
	Septer	September 30, 2017 September 24,		tember 24, 2016		\$ change	% change
				(in millions, ex	cept pe	rcentages)	
RMS	\$	45.1	\$	47.2	\$	(2.1)	(4.4)%
DSA		79.6		71.5		8.1	11.3 %
Manufacturing		52.4		47.7		4.7	10.0 %
Unallocated corporate		101.8		102.7		(0.9)	(0.9)%
Total selling, general and administrative	\$	278.9	\$	269.1	\$	9.8	3.6 %

SG&A for the nine months ended September 30, 2017 increased \$9.8 million, or 3.6%, compared to the corresponding period in 2016. SG&A as a percentage of revenue for the nine months ended September 30, 2017 was 20.2%, a decrease of 2.0%, from 22.2% for the corresponding period in 2016, which was driven by the DSA segment as discussed below.

The decrease in RMS SG&A of \$2.1 million was primarily related to a decrease in operating expenses, including information technology infrastructure and facility expenses. RMS SG&A as a percentage of revenue for the nine months ended September 30, 2017 was 12.1%, a decrease of 0.7% from 12.8% for the corresponding period in 2016.

The increase in DSA SG&A of \$8.1 million was primarily related to an increase in compensation, benefits, and other employee-related expenses to support the growth of the business. DSA SG&A as a percentage of revenue for the nine months ended September 30, 2017 was 10.9%, a decrease of 1.1% from 12.0% for the corresponding period in 2016.

The increase in Manufacturing SG&A of \$4.7 million was primarily related to an increase in compensation, benefits, and other employee-related expenses to support the growth of the business. Manufacturing SG&A as a percentage of revenue for the nine months ended September 30, 2017 was 18.8%, a decrease of 0.2% from 19.0% for the corresponding period in 2016.

The decrease in unallocated corporate SG&A of \$0.9 million was primarily related to a decrease in costs associated with the evaluation and integration of acquisitions; partially offset by an increase in compensation, benefits, and other employee-related expenses.

Amortization of Intangible Assets

Amortization of intangible assets for the nine months ended September 30, 2017 was \$30.9 million, an increase of \$1.5 million, or 5.2%, from \$29.4 million for the corresponding period in 2016, due primarily to the amortization of certain intangible assets acquired in connection with the WIL Research, Blue Stream, Agilux, and Brains On-Line acquisitions.

Interest Income

Interest income, which represents earnings on cash, cash equivalents, and time deposits, was \$0.5 million for the nine months ended September 30, 2017, a decrease of \$0.5 million, or 50.7%, compared to \$1.0 million for the corresponding period in 2016.

Interest Expense

Interest expense for the nine months ended September 30, 2017 was \$22.1 million, an increase of \$1.9 million, or 9.2%, compared to \$20.2 million for the corresponding period in 2016. The increase was due primarily to higher average balances outstanding and higher average interest rates under our \$1.65B Credit Facility as a result of a higher leverage ratio; partially offset by the increase in the corresponding period in 2016 attributed to the write-off of a portion of debt issuance costs in connection with the modification of our prior \$1.3B Credit Facility.

Other Income, Net

Other income, net was \$24.7 million for the nine months ended September 30, 2017, an increase of \$14.6 million, or 145.5%, compared to \$10.1 million for the corresponding period in 2016. The increase in other income, net was driven by a \$10.6 million gain recognized as a result of the divestiture of the CDMO business; an increase of \$4.0 million in gains recognized related to our venture capital investments; higher net gains on life insurance policy investments of \$1.4 million; and the absence of a \$0.7 million gain recorded in the corresponding period in 2016 on remeasurement of a previously held equity interest in an entity acquired in a step acquisition; partially offset by a decrease of \$2.0 million from changes in foreign currency exchange rates; and the absence of a \$1.5 million charge recorded in the corresponding period in 2016 in connection with the modification of the option to purchase the remaining 13% equity interest in Vital River.

Income Taxes

Income tax expense for the nine months ended September 30, 2017 was \$73.3 million, an increase of \$24.9 million compared to \$48.4 million for the corresponding period in 2016. Our effective tax rate was 32.2% for the nine months ended September 30, 2017, compared to 30.4% for the corresponding period in 2016. The increase was primarily attributable to the tax on the

gain on the divestiture of the CDMO business of \$18.0 million, offset by the excess tax benefit associated with stock compensation of \$9.7 million as a result of the adoption of ASU 2016-09.

Liquidity and Capital Resources

We currently require cash to fund our working capital needs, capital expansion, acquisitions, pay our debt and pension obligations. Our principal sources of liquidity have been our cash flows from operations, supplemented by long-term borrowings. Based on our current business plan, we believe that our existing funds, when combined with cash generated from operations and our access to financing resources, are sufficient to fund our operations for the foreseeable future.

The following table presents our cash, cash equivalents and investments:

	Septe	ember 30, 2017	De	ecember 31, 2016
		(in m	illions)	
Cash and cash equivalents:				
Held in U.S. entities	\$	8.7	\$	10.6
Held in non-U.S. entities		114.9		107.0
Total cash and cash equivalents		123.6		117.6
Investments:				
Held in non-U.S. entities		30.4		3.8
Total cash, cash equivalents and investments	\$	154.0	\$	121.4

Borrowings

On March 30, 2016, we amended and restated our \$1.3 billion credit facility, creating our \$1.65B Credit Facility which (1) extends the maturity date for the credit facility, and (2) makes certain other amendments in connection with our acquisition of WIL Research. The \$1.65B Credit Facility provides for up to \$1.65 billion in financing, including a \$650.0 million term loan facility and a \$1.0 billion multi-currency revolving credit facility. The term loan facility matures in 19 quarterly installments, with the last installment due March 30, 2021. The revolving credit facility matures on March 30, 2021, and requires no scheduled payment before that date.

Amounts outstanding under the \$1.65B Credit Facility were as follows:

	Septem	ber 30, 2017	De	cember 31, 2016		
		(in millio				
Term loans	\$	609.4	\$	633.8		
Revolving credit facility		545.4		578.8		
Total	\$	1,154.8	\$	1,212.6		

Under specified circumstances, we have the ability to increase the term loans and/or revolving line of credit by up to \$500.0 million in the aggregate. The interest rates applicable to the term loan and revolving loans under the \$1.65B Credit Facility are, at our option, equal to either the base rate (which is the higher of (1) the prime rate, (2) the federal funds rate plus 0.50%, or (3) the one-month adjusted LIBOR rate plus 1%) or the adjusted LIBOR rate, plus an interest rate margin based upon our leverage ratio.

Repurchases of Common Stock

During the nine months ended September 30, 2017, we repurchased 1.0 million shares for \$90.6 million under our authorized stock repurchase program. On May 9, 2017, our Board of Directors increased the stock repurchase authorization by \$150 million, to an aggregate amount of \$1.3 billion. As of September 30, 2017, we had \$129.1 million remaining on the authorized stock repurchase program. Our stock-based compensation plans permit the netting of common stock upon vesting of restricted stock, restricted stock units, and performance share units in order to satisfy individual statutory tax withholding requirements. During the nine months ended September 30, 2017, we acquired 0.2 million shares for \$16.3 million through such netting.

Cash Flows

The following table presents our net cash provided by operating activities:

	Nine Months Ended				
	September 30, 2017			tember 24, 2016	
		illions)			
Income from continuing operations	\$	154.6	\$	110.8	
Adjustments to reconcile net income from continuing operations to net cash provided by operating activities		134.6		123.6	
Changes in operating assets and liabilities		(95.4)		(36.1)	
Net cash provided by operating activities	\$	193.8	\$	198.3	

Net cash provided by cash flows from operating activities represents the cash receipts and disbursements related to all of our activities other than investing and financing activities. Operating cash flow is derived by adjusting our income from continuing operations for (1) non-cash operating items such as depreciation and amortization, stock-based compensation, deferred income taxes, and gains on divestitures, as well as (2) changes in operating assets and liabilities, which reflect timing differences between the receipt and payment of cash associated with transactions and when they are recognized in our results of operations. For the nine months ended September 30, 2017, compared to the nine months ended September 24, 2016, the decrease in cash provided by operating activities was primarily driven by negative changes in operating assets and liabilities due to the timing of our accounts payable and accrued compensation payments, a gain on divestiture, and a decrease in deferred revenue. These decreases were partially offset by an increase in income from continuing operations. Our days sales outstanding, which includes deferred revenue as an offset to accounts receivable but is not adjusted for an allowance for doubtful accounts in the calculation, was 54 days as of September 30, 2017, and 52 days as of December 31, 2016.

The following table presents our net cash used in investing activities:

	Nine Months Ended				
	September 30, 2017 S			September 24, 2016	
		s)			
Acquisition of businesses and assets, net of cash acquired	\$	(22.5)	\$	(597.6)	
Capital expenditures		(53.9)		(29.6)	
Investments, net		(35.6)		5.7	
Proceeds from divestiture		72.5		_	
Other, net		(0.3)		3.8	
Net cash used in investing activities	\$	(39.8)	\$	(617.7)	

For the nine months ended September 30, 2017, the primary use of cash used in investing activities related to our capital expenditures to support the growth of the business, net investments, and our acquisition of Brains On-Line, partially offset by the proceeds from the divestiture of the CDMO business. The primary use of cash used in investing activities in the nine months ended September 24, 2016 was related to our acquisition of WIL Research in April 2016.

The following table presents our net cash (used in) provided by financing activities:

	Nine Months Ended					
		September 30, 2017	September 24, 2016			
		is)				
Proceeds from long-term debt and revolving credit facility	\$	229.3	\$	926.8		
Proceeds from exercises of stock options		35.1		21.6		
Payments on long-term debt, revolving credit facility and capital lease obligations		(309.3)		(527.0)		
Purchase of treasury stock		(106.9)		(12.2)		
Other, net		(3.7)		(4.5)		
Net cash (used in) provided by financing activities	\$	(155.5)	\$	404.7		

For the nine months ended September 30, 2017, net cash used in financing activities reflected treasury stock purchases of \$106.9 million made pursuant to our authorized stock repurchase program and the netting of common stock upon vesting of stock-based awards in order to satisfy individual statutory tax withholding requirements; and net payments of \$80.0 million on long-term debt, revolving credit facility, and capital lease obligations; partially offset by proceeds from exercises of employee stock options of \$35.1 million. For the nine months ended September 24, 2016, cash provided by financing activities reflected net borrowings on long-term debt, revolving credit facility, and capital lease obligations of \$399.8 million, and proceeds from exercises of employee stock options of \$21.6 million; partially offset by treasury stock purchases of \$12.2 million due to the netting of common stock upon vesting of stock-based awards in order to satisfy individual statutory tax withholding requirements.

Contractual Commitments and Obligations

The disclosure of our contractual obligations and commitments was reported in our Annual Report on Form 10-K for fiscal 2016. There have been no material changes from the contractual commitments and obligations previously disclosed in our Annual Report on Form 10-K for fiscal 2016 other than the changes described in Note 5, "Fair Value," Note 7, "Long-Term Debt and Capital Lease Obligations," and Note 13, "Commitments and Contingencies" in our notes to unaudited condensed consolidated financial statements in this Quarterly Report on Form 10-Q.

Off-Balance Sheet Arrangements

As of September 30, 2017, we did not have any significant off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of SEC Regulation S-K promulgated under the Exchange Act, except as disclosed below.

Venture Capital Investments

We invest in several venture capital funds that invest in start-up companies, primarily in the life sciences industry. Our total commitment to the funds as of September 30, 2017, was \$87.7 million, of which we funded \$48.0 million through September 30, 2017. Refer to Note 4, "Venture Capital Investments" in our notes to unaudited condensed consolidated financial statements in this Quarterly Report on Form 10-Q for additional information.

Letters of Credit

Our off-balance sheet commitments related to our outstanding letters of credit as of September 30, 2017 were \$4.9 million.

Critical Accounting Policies and Estimates

Our discussion and analysis of our liquidity, capital resources and results of operations is based upon our unaudited condensed consolidated financial statements prepared in accordance with generally accepted accounting principles in the U.S. The preparation of these financial statements requires us to make certain estimates and assumptions that may affect the reported amounts of assets and liabilities, the reported amounts of revenues and expenses during the reported periods and related disclosures. These estimates and assumptions are monitored and analyzed by us for changes in facts and circumstances, and material changes in these estimates could occur in the future. We base our estimates on our historical experience, trends in the industry and various other factors that are believed to be reasonable under the circumstances. Actual results may differ from our estimates under different assumptions or conditions.

We believe that our application of the following accounting policies, each of which requires significant judgments and estimates on the part of management, is the most critical to aid in fully understanding and evaluating our reported financial results: (1) revenue recognition, (2) income taxes, (3) goodwill and intangible assets, (4) valuation and impairment of long-lived assets, (5) pension and other retirement benefit plans, and (6) stock-based compensation. Our critical accounting policies are described in our Annual Report on Form 10-K for fiscal year 2016.

Recent Accounting Pronouncements

For a discussion of recent accounting pronouncements please refer to Note 1, "Basis of Presentation," in our notes to unaudited condensed consolidated financial statements in this Quarterly Report on Form 10-Q. Other than ASU 2016-18, 2016-15 and 2016-09 discussed in Note 1, "Basis of Presentation," we did not adopt any other new accounting pronouncements during the nine months ended September 30, 2017 that had a significant effect on our unaudited condensed consolidated financial statements included in this report on Form 10-Q.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

We are exposed to market risk from changes in interest rates and currency exchange rates, which could affect our future results of operations and financial condition. We manage our exposure to these risks through our regular operating and financing activities.

Interest Rate Risk

We are exposed to changes in interest rates while conducting normal business operations as a result of ongoing financing activities. As of September 30, 2017, our debt portfolio was comprised primarily of floating interest rate borrowings. A 100-basis point increase in interest rates would increase our annual pre-tax interest expense by \$11.5 million.

Foreign Currency Exchange Rate Risk

We operate on a global basis and have exposure to some foreign currency exchange rate fluctuations for our financial position, results of operations, and cash flows.

While the financial results of our global activities are reported in U.S. dollars, our foreign subsidiaries typically conduct their operations in their respective local currencies. The principal functional currencies of the Company's foreign subsidiaries are the Euro, British Pound, Canadian Dollar, Chinese Yuan Renminbi, and Japanese Yen. During the nine months ended September 30, 2017, the most significant drivers of foreign currency translation adjustment the Company recorded as part of other comprehensive income (loss) were the Euro, British Pound, Japanese Yen, and Canadian Dollar.

Fluctuations in the foreign currency exchange rates of the countries in which we do business will affect our financial position, results of operations, and cash flows. As the U.S. dollar strengthens against other currencies, the value of our non-U.S. revenue, expenses, assets, liabilities, and cash flows will generally decline when reported in U.S. dollars. The impact to net income as a result of a U.S. dollar strengthening will be partially mitigated by the value of non-U.S. expenses, which will decline when reported in U.S. dollars. As the U.S. dollar weakens versus other currencies, the value of the non-U.S. revenue and expenses, assets, liabilities, and cash flows will generally increase when reported in U.S. dollars. For the nine months ended September 30, 2017, our revenue would have decreased by approximately \$52.9 million and our operating income would have decreased by approximately \$4.0 million, if the U.S. dollar exchange rate had strengthened by 10.0%, with all other variables held constant.

We attempt to minimize this exposure by using certain financial instruments in accordance with our overall risk management and our hedge policies. We do not enter into speculative derivative agreements.

During the nine months ended September 30, 2017, we utilized foreign exchange contracts, principally to hedge certain balance sheet exposures resulting from foreign currency fluctuations. No foreign currency contracts were open as of September 30, 2017.

Item 4. Controls and Procedures

(a) Evaluation of Disclosure Controls and Procedures

Based on their evaluation, required by paragraph (b) of Rules 13a-15 or 15d-15, promulgated by the Securities Exchange Act of 1934, as amended (Exchange Act), the Company's principal executive officer and principal financial officer have concluded that the Company's disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) of the Exchange Act, are effective, at a reasonable assurance level to ensure that information required to be disclosed by the Company in reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms, as of September 30, 2017. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the Company's management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure. In designing and evaluating the disclosure controls and procedures, our management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurances of achieving the desired control objectives, and management necessarily was required to apply its judgment in designing and evaluating the controls and procedures.

(b) Changes in Internal Controls

The Company continued to execute a plan to centralize certain accounting transaction processing functions to internal shared service centers during the three months ended September 30, 2017. There were no other material changes in the Company's internal control over financial reporting identified in connection with the evaluation required by paragraph (d) of the Exchange Act Rules 13a-15 or 15d-15 that occurred during the quarter ended September 30, 2017 that materially affected, or were reasonably likely to materially affect, the Company's internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

Please refer to Note 13, "Commitments and Contingencies" in our notes to unaudited condensed consolidated financial statements in this Quarterly Report on Form 10-Q.

Item 1A. Risk Factors

In addition to the other information set forth in this report, you should carefully consider the factors discussed in Part I, "Item 1A. Risk Factors" in our Annual Report on Form 10-K for fiscal year 2016, which could materially affect our business, financial condition, and/or future results. The risks described in our Annual Report on Form 10-K are not the only risks we face. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial also may materially adversely affect our business, financial condition, and/or operating results. There have been no material changes to the risk factors set forth in our Annual Report on Form 10-K for fiscal year 2016.

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

The following table provides information relating to the purchases of shares of our common stock during the three months ended September 30, 2017.

	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	pproximate Dollar Value of Shares That May Yet Be Purchased Under the Plans or Programs
				(in thousands)
July 2, 2017 to July 29, 2017	_	\$ _	_	\$ 165,138
July 30, 2017 to August 26, 2017	250,355	101.44	250,000	139,776
August 27, 2017 to September 30, 2017	100,042	106.71	100,000	129,105
Total	350,397		350,000	

On May 9, 2017, our Board of Directors increased the stock repurchase authorization by \$150 million, to an aggregate amount of \$1.3 billion. As of September 30, 2017, we had \$129.1 million remaining on the authorized stock repurchase program.

Additionally, our stock-based compensation plans permit the netting of common stock upon vesting of restricted stock, restricted stock units, and performance share units in order to satisfy individual statutory tax withholding requirements.

Item 6. Exhibits

(a) Exhibits Description of Exhibits

- 31.1 Rule 13a-14(a)/15d-14(a) Certification of Chief Executive Officer.
- 31.2 Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer.
- 32.1+Certification of the Principal Executive Officer and the Principal Financial Officer required by Rule 13a-14(a) of 15d-14(a) of the Exchange Act.
- 101.INS eXtensible Business Reporting Language (XBRL) Instance Document.
- 101.SCH XBRL Taxonomy Extension Schema Document.
- 101.CAL XBRL Taxonomy Calculation Linkbase Document.
- 101.DEF XBRL Taxonomy Definition Linkbase Document.
- 101.LAB XBRL Taxonomy Label Linkbase Document.
- 101.PRE XBRL Taxonomy Presentation Linkbase Document.
- + Furnished herein.

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.

CHARLES RIVER LABORATORIES INTERNATIONAL, INC.

November 9, 2017 /s/ JAMES C. FOSTER

James C. Foster

Chairman, President and Chief Executive Officer

November 9, 2017 /s/ DAVID R. SMITH

David R. Smith

Corporate Executive Vice President and Chief Financial Officer

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 AND RULE 13a-14(a)/15d-14(a) OF THE EXCHANGE ACT OF 1934

I, James C. Foster, Chairman, President and Chief Executive Officer of Charles River Laboratories International, Inc. (the registrant) certify that:

- 1. I have reviewed this quarterly report on Form 10-Q for the quarter ended September 30, 2017 of the registrant;
- 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 officers 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 officers 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.

/s/ James C. Foster

James C. Foster

Chairman, President and Chief Executive Officer

Charles River Laboratories International, Inc.

November 9, 2017

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002 AND RULE 13a-14(a)/15d-14(a) OF THE EXCHANGE ACT OF 1934

I, David R. Smith, Corporate Executive Vice President, Chief Financial Officer and Chief Accounting Officer of Charles River Laboratories International, Inc. (the registrant) certify that:

- 1. I have reviewed this quarterly report on Form 10-Q for the quarter ended September 30, 2017 of the registrant;
- 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 officers 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 officers 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.

/s/ David R. Smith

David R. Smith

Corporate Executive Vice President and Chief Financial Officer

Charles River Laboratories International, Inc.

November 9, 2017

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

In connection with the quarterly report on Form 10-Q for the quarter ended September 30, 2017 of Charles River Laboratories International, Inc. (the "Company") as filed with the Securities and Exchange Commission on the date hereof (the "Report"), the undersigned, James C. Foster, Chairman, Chief Executive Officer and President of the Company, and David R. Smith, Corporate Executive Vice President, Chief Financial Officer and Chief Accounting Officer of the Company, each hereby certifies, to the best of his knowledge and pursuant to 18 U.S.C. Section 1350, that:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (the "Exchange Act"); and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ James C. Foster

James C. Foster

Chairman, President and Chief Executive Officer Charles River Laboratories International, Inc.

November 9, 2017

/s/ David R. Smith

David R. Smith

Corporate Executive Vice President and Chief Financial Officer

Charles River Laboratories International, Inc.

November 9, 2017

This certification shall not be deemed "filed" for any purpose, nor shall it be deemed to be incorporated by reference into any filing under the Securities Act of 1933 or the Exchange Act.