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

FORM 10-Q

(Mark One)

Quarterly Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the quarterly period ended: March 31, 2021

OR

Transition Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the transition period from _____ to _____
Commission File Number 000-25434

BROOKS AUTOMATION, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

04-3040660
(I.R.S. Employer
Identification No.)

15 Elizabeth Drive
Chelmsford, Massachusetts
(Address of principal executive offices)

01824
(Zip Code)

Registrant's telephone number, including area code: (978) 262-2400

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

<u>Title of each class</u>	<u>Trading Symbol(s)</u>	<u>Name of each exchange on which registered</u>
Common Stock, \$0.01 par value	BRKS	The Nasdaq Stock Market LLC

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

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes No

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

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

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

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

Indicate the number of shares outstanding of each of the issuer's classes of common stock, as of the latest practicable date, May 4, 2021: common stock, \$0.01 par value and 74,296,729 shares outstanding.

BROOKS AUTOMATION, INC.

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PART I. FINANCIAL INFORMATION

Item 1. Consolidated Financial Statements

BROOKS AUTOMATION, INC.
CONSOLIDATED BALANCE SHEETS
(unaudited)
(In thousands, except share and per share data)

	March 31, 2021	September 30, 2020
Assets		
Current assets		
Cash and cash equivalents	\$ 320,105	\$ 295,649
Marketable securities	101	67
Accounts receivable, net	225,389	188,291
Inventories	127,987	114,834
Prepaid expenses and other current assets	50,908	50,612
Total current assets	724,490	649,453
Property, plant and equipment, net	132,420	117,665
Long-term marketable securities	3,485	3,101
Long-term deferred tax assets	9,864	4,979
Goodwill	513,093	501,536
Intangible assets, net	209,899	218,325
Other assets	70,845	64,066
Total assets	<u>\$ 1,664,096</u>	<u>\$ 1,559,125</u>
Liabilities and Stockholders' Equity		
Current liabilities		
Current portion of long-term debt	\$ 414	\$ 827
Accounts payable	77,741	61,758
Deferred revenue	36,793	31,357
Accrued warranty and retrofit costs	8,044	8,201
Accrued compensation and benefits	38,504	43,267
Accrued restructuring costs	58	181
Accrued income taxes payable	23,889	10,094
Accrued expenses and other current liabilities	80,203	55,433
Total current liabilities	265,646	211,118
Long-term debt	49,653	49,588
Long-term tax reserves	19,707	19,168
Long-term deferred tax liabilities	15,442	17,798
Long-term pension liabilities	6,353	6,406
Long-term operating lease liabilities	32,749	31,855
Other long-term liabilities	8,520	9,578
Total liabilities	398,070	345,511
Commitments and contingencies (Note 17)		
Stockholders' Equity		
Preferred stock, \$0.01 par value - 1,000,000 shares authorized, no shares issued or outstanding	—	—
Common stock, \$0.01 par value - 125,000,000 shares authorized, 87,755,666 shares issued and 74,293,797 shares outstanding at March 31, 2021, 87,293,710 shares issued and 73,831,841 shares outstanding at September 30, 2020	878	873
Additional paid-in capital	1,959,619	1,942,850
Accumulated other comprehensive income	22,637	21,919
Treasury stock, at cost - 13,461,869 shares	(200,956)	(200,956)
Accumulated deficit	(516,152)	(551,072)
Total stockholders' equity	1,266,026	1,213,614
Total liabilities and stockholders' equity	<u>\$ 1,664,096</u>	<u>\$ 1,559,125</u>

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

BROOKS AUTOMATION, INC.
CONSOLIDATED STATEMENTS OF OPERATIONS
(unaudited)
(In thousands, except per share data)

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Revenue				
Products	\$ 190,369	\$ 139,144	\$ 349,985	\$ 271,006
Services	96,217	81,083	186,104	159,721
Total revenue	<u>286,586</u>	<u>220,227</u>	<u>536,089</u>	<u>430,727</u>
Cost of revenue				
Products	105,581	83,970	197,084	163,941
Services	53,731	45,976	98,603	91,519
Total cost of revenue	<u>159,312</u>	<u>129,946</u>	<u>295,687</u>	<u>255,460</u>
Gross profit	<u>127,274</u>	<u>90,281</u>	<u>240,402</u>	<u>175,267</u>
Operating expenses				
Research and development	16,943	15,322	33,026	29,723
Selling, general and administrative	79,734	59,809	145,763	119,152
Restructuring charges	92	578	179	1,154
Total operating expenses	<u>96,769</u>	<u>75,709</u>	<u>178,968</u>	<u>150,029</u>
Operating income	30,505	14,572	61,434	25,238
Interest income	18	137	94	836
Interest expense	(452)	(718)	(1,008)	(1,455)
Other income (expenses), net	149	(1,399)	1,478	(1,816)
Income before income taxes	30,220	12,592	61,998	22,803
Income tax provision	6,288	3,400	11,058	437
Income from continuing operations	23,932	9,192	50,940	22,366
Loss from discontinued operations, net of tax	(184)	(65)	(1,164)	(182)
Net income	<u>\$ 23,748</u>	<u>\$ 9,127</u>	<u>\$ 49,776</u>	<u>\$ 22,184</u>
Basic net income per share:				
Income from continuing operations	\$ 0.32	\$ 0.12	\$ 0.69	\$ 0.30
Loss from discontinued operations, net of tax	(0.00)	(0.00)	(0.02)	(0.00)
Basic net income per share	<u>\$ 0.32</u>	<u>\$ 0.12</u>	<u>\$ 0.67</u>	<u>\$ 0.30</u>
Diluted net income per share:				
Income from continuing operations	\$ 0.32	\$ 0.12	\$ 0.68	\$ 0.30
Loss from discontinued operations, net of tax	(0.00)	(0.00)	(0.02)	(0.00)
Diluted net income per share	<u>\$ 0.32</u>	<u>\$ 0.12</u>	<u>\$ 0.67</u>	<u>\$ 0.30</u>
Weighted average shares used in computing net income per share:				
Basic	74,265	73,708	74,142	73,331
Diluted	74,414	73,789	74,367	73,752

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

BROOKS AUTOMATION, INC.
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
(unaudited)
(In thousands)

	<u>Three Months Ended</u>		<u>Six Months Ended</u>	
	<u>March 31,</u>		<u>March 31,</u>	
	<u>2021</u>	<u>2020</u>	<u>2021</u>	<u>2020</u>
Net income	\$ 23,748	\$ 9,127	\$ 49,776	\$ 22,184
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	(12,547)	(5,852)	717	3,793
Unrealized gains (losses) on marketable securities, net of tax effects of \$0 during each of the three and six months ended March 31, 2021, and \$0 during each of the three and six months ended March 31, 2020	—	(3)	—	7
Actuarial gains (losses), net of tax effects of (\$4) and \$1 during the three and six months ended March 31, 2021, \$1 and \$2 during the three and six months ended March 31, 2020	39	—	1	(12)
Total other comprehensive income (loss), net of tax	<u>(12,508)</u>	<u>(5,855)</u>	<u>718</u>	<u>3,788</u>
Comprehensive income	<u>\$ 11,240</u>	<u>\$ 3,272</u>	<u>\$ 50,494</u>	<u>\$ 25,972</u>

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

BROOKS AUTOMATION, INC.
CONSOLIDATED STATEMENTS OF CASH FLOWS
(unaudited)
(In thousands)

	Six Months Ended	
	March 31,	
	2021	2020
Cash flows from operating activities		
Net income	\$ 49,776	\$ 22,184
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	31,543	33,079
Stock-based compensation	14,191	8,624
Amortization of premium on marketable securities and deferred financing costs	113	94
Deferred income taxes	(10,161)	(9,477)
Other losses on disposals of assets	51	125
Adjustment to the gain on divestiture, net of tax	948	319
Taxes paid stemming from divestiture	—	(91,500)
Accounts receivable	(35,033)	(12,670)
Inventories	(11,301)	(9,094)
Prepaid expenses and other assets	3,157	5,374
Accounts payable	14,136	5,807
Deferred revenue	4,659	(1,478)
Accrued warranty and retrofit costs	(261)	735
Accrued compensation and tax withholdings	(5,371)	(522)
Accrued restructuring costs	(124)	(112)
Accrued expenses and other liabilities	21,619	8,455
Net cash provided by (used in) operating activities	<u>77,942</u>	<u>(40,057)</u>
Cash flows from investing activities		
Purchases of property, plant and equipment	(25,531)	(21,170)
Purchases of marketable securities	(75)	(10,843)
Sales of marketable securities	25	2,492
Maturities of marketable securities	—	42,226
Adjustment to proceeds from divestiture	(1,802)	—
Acquisitions, net of cash acquired	(15,061)	(15,743)
Issuance of a note receivable	—	(1,000)
Net cash used in investing activities	<u>(42,444)</u>	<u>(4,038)</u>
Cash flows from financing activities		
Proceeds from issuance of common stock	2,583	2,330
Principal payments on debt	(414)	(414)
Payments of finance leases	(638)	(639)
Common stock dividends paid	(14,856)	(14,747)
Net cash used in financing activities	<u>(13,325)</u>	<u>(13,470)</u>
Effects of exchange rate changes on cash and cash equivalents	6,051	(1,803)
Net increase (decrease) in cash, cash equivalents and restricted cash	28,224	(59,368)
Cash, cash equivalents and restricted cash, beginning of period	302,526	305,171
Cash, cash equivalents and restricted cash, end of period	<u>\$ 330,750</u>	<u>\$ 245,803</u>
Supplemental disclosure of non-cash investing and financing activities:		
Purchases of property, plant and equipment included in accounts payable	\$ 3,733	\$ 1,305
Reconciliation of cash, cash equivalents, and restricted cash to the consolidated balance sheets		
Cash and cash equivalents	\$ 320,105	\$ 242,274
Short-term restricted cash included in prepaid expenses and other current assets	3,570	3,529
Long-term restricted cash included in other assets	7,075	—
Total cash, cash equivalents and restricted cash shown in the consolidated statements of cash flows	<u>\$ 330,750</u>	<u>\$ 245,803</u>

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

BROOKS AUTOMATION, INC.
CONSOLIDATED STATEMENTS OF CHANGES IN STOCKHOLDERS EQUITY
(unaudited)
(In thousands, except share data)

	Common Stock Shares	Common Stock at Par Value	Additional Paid-In Capital	Accumulated Other Comprehensive Income	Accumulated Deficit	Treasury Stock	Total Equity
Balance December 31, 2020	87,672,132	\$ 877	\$ 1,949,556	\$ 35,145	\$ (532,468)	\$ (200,956)	\$ 1,252,154
Shares issued under restricted stock and purchase plans, net	83,534	1	2,582				2,583
Stock-based compensation			7,481				7,481
Common stock dividends declared, at \$0.10 per share					(7,432)		(7,432)
Foreign currency translation adjustments				(12,547)			(12,547)
Actuarial gains, net of tax effects of (\$4)				39			39
Net income					23,748		23,748
Balance March 31, 2021	<u>87,755,666</u>	<u>\$ 878</u>	<u>\$ 1,959,619</u>	<u>\$ 22,637</u>	<u>\$ (516,152)</u>	<u>\$ (200,956)</u>	<u>\$ 1,266,026</u>
Balance December 31, 2019	87,080,017	\$ 871	\$ 1,926,350	\$ 13,154	\$ (580,724)	\$ (200,956)	\$ 1,158,695
Shares issued under restricted stock and purchase plans, net	134,605	1	2,329				2,330
Stock-based compensation			4,214				4,214
Common stock dividends declared, at \$0.10 per share					(7,378)		(7,378)
Foreign currency translation adjustments				(5,852)			(5,852)
Changes in unrealized gains on marketable securities, net of tax effects of \$0				(3)			(3)
Actuarial losses, net of tax effects of \$1				—			—
Net income					9,127		9,127
Balance March 31, 2020	<u>87,214,622</u>	<u>\$ 872</u>	<u>\$ 1,932,893</u>	<u>\$ 7,299</u>	<u>\$ (578,975)</u>	<u>\$ (200,956)</u>	<u>\$ 1,161,133</u>
Balance September 30, 2020	87,293,710	\$ 873	\$ 1,942,850	\$ 21,919	\$ (551,072)	\$ (200,956)	\$ 1,213,614
Shares issued under restricted stock and purchase plans, net	461,956	5	2,578				2,583
Stock-based compensation			14,191				14,191
Common stock dividends declared, at \$0.20 per share					(14,856)		(14,856)
Foreign currency translation adjustments				717			717
Actuarial gains, net of tax effects of \$1				1			1
Net income					49,776		49,776
Balance March 31, 2021	<u>87,755,666</u>	<u>\$ 878</u>	<u>\$ 1,959,619</u>	<u>\$ 22,637</u>	<u>\$ (516,152)</u>	<u>\$ (200,956)</u>	<u>\$ 1,266,026</u>
Balance September 30, 2019	85,759,700	\$ 857	\$ 1,921,954	\$ 3,511	\$ (586,412)	\$ (200,956)	\$ 1,138,954
Shares issued under restricted stock and purchase plans, net	1,454,922	15	2,315				2,330
Stock-based compensation			8,624				8,624
Common stock dividends declared, at \$0.20 per share					(14,747)		(14,747)
Foreign currency translation adjustments				3,793			3,793
Changes in unrealized losses on marketable securities, net of tax effects of \$0				7			7
Actuarial losses, net of tax effects of \$2				(12)			(12)
Net income					22,184		22,184
Balance March 31, 2020	<u>87,214,622</u>	<u>\$ 872</u>	<u>\$ 1,932,893</u>	<u>\$ 7,299</u>	<u>\$ (578,975)</u>	<u>\$ (200,956)</u>	<u>\$ 1,161,133</u>

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

BROOKS AUTOMATION, INC.
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS (unaudited)

1. Basis of Presentation

The unaudited consolidated financial statements of Brooks Automation, Inc. and its subsidiaries (“Brooks”, or the “Company”) included herein have been prepared in accordance with accounting principles generally accepted in the United States (“GAAP”). All intercompany accounts and transactions have been eliminated in consolidation. In the opinion of management, all material adjustments, which are of a normal and recurring nature and necessary for a fair statement of the financial position and results of operations and cash flows for the periods presented, have been reflected in the accompanying unaudited consolidated financial statements. The results of operations for the interim periods are not necessarily indicative of the results of operations to be expected for the full fiscal year.

Certain information and footnote disclosures normally included in the Company’s annual consolidated financial statements have been condensed or omitted and, accordingly, the accompanying financial information should be read in conjunction with the audited consolidated financial statements and notes thereto contained in the Company’s Annual Report on Form 10-K filed with the United States Securities and Exchange Commission (the “SEC”) for the fiscal year ended September 30, 2020 (the “2020 Annual Report on Form 10-K”). The accompanying Consolidated Balance Sheet as of September 30, 2020 was derived from the audited annual consolidated financial statements as of the period then ended.

Discontinued Operations

In the fourth quarter of fiscal year 2018, the Company entered into a definitive agreement to sell its semiconductor cryogenics business (the “Disposition”) to Edwards Vacuum LLC (a member of the Atlas Copco Group) (“Edwards”). The Company determined that the semiconductor cryogenics business met the “held for sale” criteria and the “discontinued operations” criteria in accordance with Financial Accounting Standard Boards (“FASB”) Accounting Standards Codification (“ASC”) 205, *Presentation of Financial Statements* (“FASB ASC 205”), as of September 30, 2018. On July 1, 2019, the Company completed the sale of the semiconductor cryogenics business. Results related to the semiconductor cryogenics business are included within discontinued operations. Please refer to Note 3, “Discontinued Operations” for further information.

Risks and Uncertainties

The Company is subject to risks common to companies in the markets it serves, including, but not limited to, global economic and financial market conditions, fluctuations in customer demand, acceptance of new products, development by its competitors of new technological innovations, risk of disruption in its supply chain, the implementation of tariffs and export controls, dependence on key personnel, protection of proprietary technology, and compliance with domestic and foreign regulatory authorities and agencies.

During the COVID-19 pandemic, the Company’s facilities have remained operational with only required personnel on site, and the balance of employees working from home. The Company’s semiconductor and life sciences business segments fall within the classification of an “Essential Critical Infrastructure Sector” as defined by the U.S. Department of Homeland Security and have continued operations during the COVID-19 pandemic. The Company has followed government guidance in each region and country and has implemented U.S. Centers for Disease Control and Prevention social distancing guidelines and other applicable best practices to protect the health and safety of the Company’s employees. The COVID-19 pandemic has not had a substantial negative impact on the Company’s financial results and a portion of the impact has been mitigated by the Company’s realignment of resources to satisfy incremental orders related to virus research. Future impacts on the Company’s financial results will depend on multiple variables which are not fully determinable, as the full impact of the pandemic on the economy and markets which the Company serves is as yet unknown. The variables are many, but fundamentally include reduced demand from the Company’s customers, the degree that the supply chain may be constrained which could impact the Company’s delivery of product and the

potential impact to its operations if there is a significant outbreak among the Company's employees, as well as the amount of incremental demand caused by research and treatments in the areas of COVID-19 or related threats.

2. Summary of Significant Accounting Policies

Use of Estimates

The preparation of unaudited consolidated financial statements in conformity with GAAP requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the unaudited consolidated financial statements and the reported amounts of revenue and expenses during the reporting period. Significant estimates are associated with recording accounts receivable, inventories, goodwill, intangible assets other than goodwill, long-lived assets, derivative financial instruments, deferred income taxes, warranty obligations, revenue recognized in accordance with the percentage of completion method, and stock-based compensation expense. The Company bases its estimates on historical experience and various other assumptions, including in certain circumstances future projections that management believes to be reasonable under the circumstances. Although the Company regularly assesses these estimates, actual results could differ from those estimates. Changes in estimates are recorded in the period in which they occur and become known.

The full extent to which the COVID-19 pandemic will directly or indirectly impact the Company's business, including results of operations and financial condition, sales, expenses, reserves and allowances, manufacturing and employee-related amounts, will depend on future developments that are highly uncertain. This includes results from new information that may emerge concerning COVID-19 and any actions taken to contain or treat COVID-19, as well as the economic impact on local, regional, national and international customers and markets. The Company has made estimates of the impact of COVID-19 within its financial statements and there may be changes to those estimates in future periods.

Foreign Currency Translation

Certain transactions of the Company and its subsidiaries are denominated in currencies other than their functional currency.

Foreign currency exchange gains and losses generated from the settlement and remeasurement of these transactions are recognized in earnings and presented within "Other expenses, net" in the Company's unaudited Consolidated Statements of Operations. Net foreign currency transaction and remeasurement losses were \$0.4 million and \$2.0 million during the three months ended March 31, 2021 and 2020, respectively. Net foreign currency transaction and remeasurement gains were \$0.4 million and losses were \$2.7 million during the six months ended March 31, 2021 and 2020, respectively.

Derivative Financial Instruments

The Company has transactions and balances denominated in currencies other than U.S. dollars. Most of these transactions or balances are denominated in Euros, British Pounds and a variety of Asian currencies. The Company enters into foreign exchange contracts to reduce its exposure to currency fluctuations. The arrangements typically mature in three months or less and they do not qualify for hedge accounting. Net gains and losses related to these contracts are recorded as a component of "Other income (expenses), net" in the accompanying unaudited Consolidated Statements of Operations and are as follows for the three and six months ended March 31, 2021 and 2020 (in thousands):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Realized (losses) gains on derivatives not designated as hedging instruments	\$ (5,173)	\$ 4,424	\$ (6,335)	\$ 756

The fair values of the forward contracts are recorded in the accompanying unaudited Consolidated Balance Sheets as “Prepaid expenses and other current assets” and “Accrued expenses and other current liabilities”. Foreign exchange contract assets and liabilities are measured and reported at fair value based on observable market inputs and classified within Level 2 of the fair value hierarchy described below due to a lack of an active market for these contracts.

Fair Value Measurements

The Company measures certain financial assets and liabilities, including cash equivalents and available for sale securities, at fair value. FASB ASC 820, *Fair Value Measurement and Disclosures*, establishes a fair value hierarchy that requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. The following levels of inputs may be used to measure fair value:

Level 1 Inputs: Quoted prices in active markets for identical assets or liabilities as of the reporting date. Active markets are those in which transactions for the asset and liability occur in sufficient frequency and volume to provide pricing information on an ongoing basis.

Level 2 Inputs: Observable inputs other than prices included in Level 1, including quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 Inputs: Unobservable inputs that are significant to the fair value of the assets or liabilities and reflect an entity’s own assumptions in pricing assets or liabilities since they are supported by little or no market activity.

As of March 31, 2021, the Company had no assets or liabilities measured and recorded at fair value on a recurring basis using Level 3 inputs.

Accounts Receivable, Allowance for Expected Credit Losses and Sales Returns

Trade accounts receivable do not bear interest and are recorded at the invoiced amount. The Company maintains an allowance for expected credit losses representing its best estimate of expected credit losses related to its existing accounts receivable and their net realizable value. The Company determines the allowance based on a number of factors, including an evaluation of customer credit worthiness, the age of the outstanding receivables, economic trends, historical experience and other information over the payment periods. The Company reviews and adjusts the allowance for expected credit losses on a quarterly basis. Accounts receivable balances are written off against the allowance for expected credit losses when the Company determines that the balances are not recoverable. Provisions for expected credit losses are recorded in “Selling, general and administrative expenses” in the Consolidated Statements of Operations. The Company determines the allowance for sales returns based on its best estimate of expected customer returns. Provisions for sales returns are recorded in “Revenue” in the Consolidated Statements of Operations. The Company does not have any off-balance-sheet credit exposure related to its customers.

Leases

The Company has operating leases for real estate and non-real estate and finance leases for non-real estate. The classification of a lease as operating or finance and the determination of the right-of-use asset (“ROU asset”) and lease liability are determined at lease inception. The ROU asset represents the Company’s right to use an underlying asset for the lease term and the lease liability represents the Company’s obligation to make lease payments arising from the lease. Operating lease ROU assets and liabilities are recognized at the commencement date of the lease based on the present value of lease payments over the lease term. As most of the Company’s leases do not provide an implicit rate, an incremental borrowing rate is used based on the estimated rate of interest for collateralized borrowing over a similar term of the lease payments at commencement date. Lease terms may include options to extend or terminate the lease when it is reasonably certain that the option will be exercised. Lease expense is recognized on a straight-line basis over the lease term.

The Company's lease agreements may contain lease and non-lease components. Non-lease components primarily include payments for maintenance and utilities. Fixed payments for non-lease components are combined with lease payments and accounted for as a single lease component which increases the amount of the ROU asset and liability.

The ROU asset for operating leases is included within "Other assets" and the ROU asset for finance leases is included within "Property, plant, and equipment, net" in the accompanying unaudited Consolidated Balance Sheets. The short-term lease liabilities for both operating leases and finance leases are included within "Accrued expenses and other current liabilities" in the accompanying unaudited Consolidated Balance Sheets. The long-term lease liabilities for operating leases and finance leases are included within "Long-term operating lease liabilities", and "Other long-term liabilities", respectively, in the accompanying unaudited Consolidated Balance Sheets.

Recently Issued Accounting Pronouncements

In October 2020, the FASB issued Accounting Standards Update ("ASU") 2020-10, *Codification Improvements*. The amendments in this ASU represent changes to clarify the ASCs, correct unintended application of guidance, or make minor improvements to the ASC that are not expected to have a significant effect on current accounting practice or create a significant administrative cost to most entities. ASU 2020-10 is effective for annual periods beginning after December 15, 2020 and interim periods within those annual periods, with early adoption permitted. The amendments in this ASU should be applied retrospectively. This ASU will not affect the Company's consolidated financial statements. The Company will adopt the provisions of this ASU in the first quarter of fiscal 2022 and is currently evaluating the impact this guidance may have on the disclosure to the consolidated financial statements.

In March 2020, the FASB issued ASU 2020-04, *Facilitation of the Effects of Reference Rate Reform on Financial Reporting*. In January 2021, the FASB issued ASU 2021-01, *Reference Rate Reform (Topic 848): Scope*. The amendments provide temporary optional expedients and exceptions to the GAAP guidance on contract modifications and hedge accounting to ease the financial reporting burdens related to the expected market transition from the London Interbank Offered Rate (LIBOR) and other interbank offered rates to alternative reference rates. The provisions of the amendments are only available until December 31, 2022, when the reference rate replacement activity is expected to be completed. The Company is currently evaluating the impact this guidance may have on its consolidated financial statements and related disclosures.

In December 2019, the FASB issued ASU 2019-12, *Simplifying the Accounting for Income Taxes (Topic 740)*, which removes certain exceptions to the general principles in Topic 740 and improves consistent application of and simplifies GAAP for other areas of Topic 740 clarifying and amending existing guidance. This ASU is effective for annual periods, including interim periods within those annual periods, beginning after December 15, 2020. Early adoption is permitted. The Company will adopt the provisions of this ASU in the first quarter of fiscal 2022. The Company is currently evaluating the impact this guidance may have on its consolidated financial statements and related disclosures.

In August 2018, the FASB issued ASU 2018-14, *Disclosure Framework — Changes to the Disclosure Requirements for Defined Benefit Plans*, which amends ASC 715 to add, remove, and clarify disclosure requirements related to defined benefit pension and other postretirement plans. The amendments require additional disclosure for the weighted-average interest crediting rates, a narrative description of the reasons for significant gains and losses, and an explanation of any other significant changes in the benefit obligation or plan assets. The amendment removes disclosure requirements for accumulated other comprehensive income expected to be recognized over the next year, information about plan assets to be returned to the entity, and the effects of a one-percentage-point change on the assumed health care costs and the effect of this change in rates on service cost, interest cost, and the benefit obligation for postretirement health care benefits. The ASU is effective for fiscal years ending after December 15, 2020. Early adoption is permitted. The ASU does not amend the interim disclosure requirements of ASC 715-20. The Company will adopt the provisions of this ASU in the first quarter of fiscal 2022 and is currently evaluating the impact this guidance may have on the disclosure to the consolidated financial statements.

Recently Adopted Accounting Pronouncements

In August 2018, the FASB issued ASU 2018-13, *Fair Value Measurement (Topic 820): Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement*, which amends ASC 820 to add and remove disclosure requirements related to fair value measurement. The amendments include new disclosure requirements for changes in unrealized gains or losses included in other comprehensive income for recurring Level 3 fair value measurements held at the end of the reporting period and the range and weighted average used to develop significant unobservable inputs for Level 3 fair value measurements. The amendments eliminated disclosure requirements for amount of and reasons for transfers between Level 1 and Level 2, valuation processes for Level 3 fair value measurements, and policy for timing of transfers between levels of the fair value hierarchy. In addition, the amendments modified certain disclosure requirements to provide clarification or to promote appropriate exercise of discretion by entities. ASU 2018-13 is effective for fiscal years beginning after December 15, 2019, including interim periods therein. Early adoption is permitted. The Company adopted the guidance during the first quarter of fiscal year 2021. There is no significant accounting impact on the Company's consolidated financial statements and related disclosures as a result of the adoption of this ASU.

In August 2018, the FASB issued ASU 2018-15, *Intangibles – Goodwill and Other – Internal-Use Software (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement That Is a Service Contract*. The amendments align the requirements for capitalizing implementation costs incurred in a hosting arrangement that is a service contract with the requirements for capitalizing implementation costs incurred to develop or obtain internal-use software (and hosting arrangements that include an internal-use software license). The accounting for the service element of a hosting arrangement that is a service contract is not affected by these amendments. The provisions may be adopted prospectively or retrospectively. This ASU is effective for annual periods, including interim periods within those annual periods, beginning after December 15, 2019. Early adoption is permitted. The Company adopted the guidance during the first quarter of fiscal year 2021 on a prospective basis. There is no significant accounting impact on the Company's consolidated financial statements and related disclosures as a result of the adoption of this ASU.

In June 2016, the FASB issued ASU 2016-13, *Financial Instruments - Credit Losses: Measurement of Credit Losses on Financial Instruments*. The FASB subsequently issued ASU 2019-04, *Codification Improvements to Topic 326, Financial Instruments - Credit Losses, Topic 815, Derivatives and Hedging, and Topic 825, Financial Instruments*, ASU 2019-05 "Financial Instruments-Credit Losses", ASU 2019-11, *Codification Improvements to Topic 326, Financial Instruments - Credit Losses, and ASU 2020-02, Financial Instruments-Credit Losses (Topic 326) and Leases (Topic 842)* to clarify and address certain items related to the amendments in ASU 2016-13. Topic 326 provides guidance for recognizing credit losses on financial instruments based on an estimate of current expected credit losses model. The amendments are effective for fiscal years, and interim periods within those years, beginning after December 15, 2019. Early adoption is permitted. The Company adopted the guidance during the first quarter of fiscal year 2021. There is no significant accounting impact on the Company's consolidated financial statements and related disclosures as a result of the adoption of this ASU.

Other

For further information with regard to the Company's significant accounting policies, please refer to Note 2 "Summary of Significant Accounting Policies" to the Company's consolidated financial statements included in the 2020 Annual Report on Form 10-K.

3. Discontinued Operations

On August 27, 2018, the Company entered into a definitive agreement to sell its semiconductor cryogenics business to Edwards for \$675.0 million in cash, subject to adjustments. The sale was closed on July 1, 2019. The Company completed the sale for \$659.8 million. Net proceeds from the sale were approximately \$551.7 million, net of taxes and closing costs paid and remaining estimated taxes payable. During the first quarter of fiscal year 2021, the final net working capital was determined and resulted in a negative adjustment in the amount of \$1.8 million payable to Edwards, which was paid during the three months ended March 31, 2021.

In the third quarter of fiscal year 2020, Edwards asserted claims for indemnification under the definitive agreement relating to alleged breaches of representations and warranties relating to customer warranty claims and inventory. The Company cannot determine the probability of any losses or outcome of these claims including the amount of any indemnifiable losses, if any, resulting from these claims at this time, however, the Company believes that none of these claims will have a material adverse effect on its consolidated financial position or results of operations. If the resolution of these claims results in indemnifiable losses in excess of the applicable indemnification deductibles and indemnification escrow established under the definitive agreement, Edwards would be required to seek recovery under the representation and warranty insurance Edwards obtained in connection with the closing of the transaction. The Company believes that any indemnifiable losses in excess of the applicable deductibles and indemnification escrow established in the definitive agreement would be covered by such insurance. If Edwards is unable to obtain recovery under its insurance, however, it could seek recovery of such indemnifiable losses, if any, directly from the Company.

The semiconductor cryogenics business consisted of the CTI pump business, Polycold chiller business, the related services business and a 50% share in Ulvac Cryogenics, Inc., a joint venture based in Japan. The semiconductor cryogenics business was originally acquired by the Company in its 2005 merger with Helix Technology Corporation. The operating results of the semiconductor cryogenics business had been included in the Brooks Semiconductor Solutions Group segment before the plan of disposition.

In connection with the closing of the Disposition on July 1, 2019, the Company and Edwards entered into a transition service agreement, a supply agreement, and lease agreements. The transition service agreement outlined the information technology, people, and facility support the parties provided to each other for the period ending 9 months after the transaction closing date. The supply agreement allowed the Company to purchase CTI and Polycold goods at cost from Edwards up to an aggregate amount equal to \$1.0 million until the one-year anniversary of closing the Disposition. The lease agreements provide facility space in Chelmsford, Massachusetts to Edwards free of charge for three years after the transaction closing date. Edwards has the option to renew each lease at the then current market rates after the initial three-year lease term has ended. This Disposition was consistent with the Company's long-standing strategy to increase shareholder value by accelerating the growth of its Life Sciences businesses with further acquisitions and strengthening its semiconductor automation business with opportunistic acquisitions.

The Disposition met the "held for sale" criteria and the "discontinued operation" criteria in accordance with FASB ASC 205 as of September 30, 2018. As such, its operating results have been reported as a discontinued operation for all periods presented.

The following table presents the financial results of discontinued operations (in thousands):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Loss on discontinued operations before income taxes	\$ (242)	\$ (86)	\$ (1,530)	\$ (239)
Net loss from discontinued operations	(184)	(65)	(1,164)	(182)

4. Marketable Securities

The Company invests in marketable securities that are classified as available-for-sale and records them at fair value in the accompanying unaudited Consolidated Balance Sheets. Marketable securities reported as current assets represent investments that mature within one year from the balance sheet date. Long-term marketable securities represent investments with maturity dates greater than one year from the balance sheet date. The securities are valued using matrix pricing and benchmarking and classified within Level 2 of the fair value hierarchy because they are not actively traded. Matrix pricing is a mathematical technique used to value securities by relying on the securities' relationship to other benchmark quoted prices.

Unrealized gains and losses are excluded from earnings and reported as a separate component of "Total other comprehensive income, net of tax" in the accompanying unaudited Consolidated Statement of Comprehensive Income

until the security is sold or matures. Gains or losses realized from sales of marketable securities are computed based on the specific identification method and recognized as a component of "Other income (expenses), net" in the accompanying unaudited Consolidated Statements of Operations. During the six months ended March 31, 2021, there were insignificant sales of marketable securities. During the six months ended March 31, 2020, the Company sold marketable securities with a fair value and amortized cost of \$2.5 million, and recognized a net gain of less than \$0.1 million in this period. As a result, during the six months ended March 31, 2020, the Company collected cash proceeds of \$2.5 million from the sale of marketable securities and reclassified net unrealized holding gains of less than \$0.1 million from accumulated other comprehensive income into "Other expenses, net" in the accompanying unaudited Consolidated Statements of Operations as a result of these transactions.

The following is a summary of the amortized cost and the fair value, including accrued interest receivable and unrealized holding gains (losses) on the short-term and long-term marketable securities as of March 31, 2021 and September 30, 2020 (in thousands):

	Amortized Cost	Gross Unrealized Losses	Gross Unrealized Gains	Fair Value
March 31, 2021:				
U.S. Treasury securities and obligations of U.S. government agencies	\$ 20	\$ —	\$ —	\$ 20
Bank certificates of deposits	55	—	—	55
Corporate securities	3,485	—	—	3,485
Municipal securities	25	—	—	25
	<u>\$ 3,586</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 3,586</u>
September 30, 2020:				
Bank certificates of deposits	\$ 51	\$ —	\$ —	\$ 51
Corporate securities	3,101	—	—	3,101
Other debt securities	16	—	—	16
	<u>\$ 3,168</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 3,168</u>

The fair values of the marketable securities by contractual maturities at March 31, 2021 are presented below (in thousands):

	Fair Value
Due in one year or less	\$ 101
Due after one year through five years	—
Due after five years through ten years	—
Due after ten years	3,485
Total marketable securities	<u>\$ 3,586</u>

Expected maturities could differ from contractual maturities because the security issuers may have the right to prepay obligations without prepayment penalties.

The Company reviews the marketable securities for impairment at each reporting period to determine if any of the securities have experienced an other-than-temporary decline in fair value. The Company considers factors, such as the length of time and extent to which the market value has been less than the cost, the financial condition and near-term prospects of the issuer, the Company's intent to sell, or whether it is more likely than not it will be required to sell the investment before recovery of its amortized cost basis. If the Company believes that an other-than-temporary decline in fair value has occurred, it writes down the investment to its fair value and recognizes the credit loss in earnings and the non-credit loss in accumulated other comprehensive income or loss. There were no securities in an unrealized loss position as of either of March 31, 2021 and September 30, 2020.

Cash equivalents of less than \$0.1 million at March 31, 2021 consist of money market funds and are classified within Level 1 of the fair value hierarchy because they are valued using quoted market prices in active markets. There

were no cash equivalents classified within Level 1 of the fair value hierarchy as of September 30, 2020. Cash equivalents of \$0.1 million as of September 30, 2020, consist primarily of treasury bills and agency bonds and are classified within Level 2 of the fair value hierarchy because they are not actively traded. Cash equivalents from Level 1 and Level 2 are recorded in “Cash and cash equivalents” within the accompanying unaudited Consolidated Balance Sheet.

5. Acquisitions

Acquisition Completed in Fiscal Year 2021

On December 3, 2020, the Company acquired Trans-Hit Biomarkers Inc. (“THB”), a worldwide biospecimen procurement service provider based in Montreal Canada. THB has an extensive collection capability for biospecimens and clinical samples through a worldwide partner network of clinical sites and biobanks. The total cash purchase price of the acquisition was approximately \$15.2 million, net of cash acquired.

The allocation of the consideration primarily included \$7.5 million of customer relationships, \$8.9 million of goodwill and \$2.3 million of deferred tax liabilities. The Company applied the excess earnings method to determine the fair value of the customer relationships intangible asset. The weighted useful life of all intangibles acquired is 11 years. The purchase price allocation was based on a preliminary valuation which is subject to further adjustments within the measurement period when additional information becomes available. The goodwill from this acquisition is reported within the Brooks Life Sciences Services segment and is not tax deductible. The acquisition enhances the breadth and depth of the Company’s offerings and expands its expertise in the Brooks Life Sciences Services segment.

The Company did not present a pro forma information summary for its consolidated results of operations because such results were immaterial.

Acquisition Completed in Fiscal Year 2020

On February 11, 2020, the Company acquired RURO, Inc. (“RURO”), an informatics software company based in Frederick, Maryland. RURO provides cloud-based software solutions to manage laboratory workflow and bio-sample data for a broad range of customers in the biotech, healthcare, and pharmaceutical sectors. The addition of RURO’s capabilities and offerings will enable the Company to offer enhanced on-site and off-site management of biological sample inventories as well as integration solutions to its customers for their increasingly distributed workflow. The total cash purchase price of the acquisition net of cash acquired was \$15.2 million after the Company’s agreement with the seller of a net working capital settlement. The Company received \$0.5 million in connection with the net working capital settlement on April 1, 2021.

The allocation of the consideration primarily included \$0.6 million of accounts receivable, \$2.9 million of customer relationships, \$2.9 million of technology assets, \$11.0 million of goodwill, and \$2.7 million of liabilities. The Company applied the excess earnings method to determine the fair value of the customer relationships intangible asset. The goodwill from this acquisition is reported within the Brooks Life Sciences Services segment and is not tax deductible.

6. Goodwill and Intangible Assets

Goodwill represents the excess of net book value over the estimated fair value of net tangible and identifiable intangible assets of a reporting unit. Goodwill is tested for impairment annually or more often if impairment indicators are present at the reporting unit level. If events occur or circumstances change that would more likely than not reduce fair values of the reporting units below their carrying values, goodwill will be evaluated for impairment between annual tests. No triggering events indicating goodwill impairment occurred during the six months ended March 31, 2021. Please refer to Note 8, "Goodwill and Intangible Assets" to the Company’s consolidated financial statements included in the

2020 Annual Report on Form 10-K for further information on the goodwill impairment testing performed during fiscal year 2020.

The changes in the Company's goodwill by reportable segment since September 30, 2020 are as follows (in thousands):

	Brooks Semiconductor Solutions Group	Brooks Life Sciences Products	Brooks Life Sciences Services	Other	Total
Gross goodwill, at September 30, 2020	\$ 637,303	\$ 103,278	\$ 349,899	\$ 26,014	\$ 1,116,494
Accumulated goodwill impairments	(588,944)	—	—	(26,014)	(614,958)
Goodwill, net of accumulated impairments, at September 30, 2020	48,359	103,278	349,899	—	501,536
Acquisitions and adjustments	(129)	2,573	9,113	—	11,557
Gross goodwill, at March 31, 2021	637,174	105,851	359,012	26,014	1,128,051
Accumulated goodwill impairments	(588,944)	—	—	(26,014)	(614,958)
Goodwill, net of accumulated impairments, at March 31, 2021	\$ 48,230	\$ 105,851	\$ 359,012	\$ —	\$ 513,093

During the six months ended March 31, 2021, the Company recorded a goodwill increase of \$11.6 million primarily related to the acquisition of THB and the impact of foreign currency translation adjustments.

The components of the Company's identifiable intangible assets as of March 31, 2021 and September 30, 2020 are as follows (in thousands):

	March 31, 2021			September 30, 2020		
	Cost	Accumulated Amortization	Net Book Value	Cost	Accumulated Amortization	Net Book Value
Patents	\$ 5,302	\$ 4,964	\$ 338	\$ 5,302	\$ 4,865	\$ 437
Completed technology	93,228	54,599	38,629	92,477	49,875	42,602
Trademarks and trade names	26,258	11,153	15,105	25,769	9,322	16,447
Non-competition agreements	716	94	622	—	—	—
Customer relationships	281,420	126,218	155,202	271,113	112,277	158,836
Other intangibles	248	245	3	245	242	3
	\$ 407,172	\$ 197,273	\$ 209,899	\$ 394,906	\$ 176,581	\$ 218,325

Amortization expense for intangible assets was \$19.7 million and \$20.9 million, respectively, during the six months ended March 31, 2021 and 2020.

Estimated future amortization expense for the intangible assets for the remainder of fiscal year 2021, the subsequent four fiscal years and thereafter is as follows (in thousands):

Fiscal year ended September 30,	
2021	\$ 19,407
2022	35,834
2023	32,545
2024	27,604
2025	22,308
Thereafter	72,201
	\$ 209,899

7. Line of Credit

The Company maintains a revolving line of credit under a credit agreement with Wells Fargo Bank, N.A. and JPMorgan Chase Bank, N.A. that provides for a revolving credit facility of up to \$75.0 million, subject to borrowing base availability, as defined in the credit agreement. The line of credit matures on October 4, 2022 and expires no less than 90 days prior to the term loan expiration discussed below. The proceeds from the line of credit are available for permitted acquisitions and general corporate purposes.

On October 4, 2017, the Company entered into a \$200.0 million Senior Secured Term Loan Facility (the “term loan”) with Morgan Stanley Senior Funding, Inc., JPMorgan Chase Bank, N.A. and Wells Fargo Securities, LLC (collectively, the “lenders”). Coincident with the entry into the credit agreement for the term loan discussed in Note 8, “Debt” below, the Company amended certain terms and conditions of the credit agreement for the line of credit. Based on the amended terms of the credit agreement, the line of credit continues to provide for a revolving credit facility of up to \$75.0 million, subject to borrowing base availability. Borrowing base availability under the amended credit agreement excludes collateral related to fixed assets and is redetermined periodically based on certain percentage of certain eligible U.S. assets, including accounts receivable and inventory. The sub-limits for letters of credit were reduced to \$7.5 million under the amended terms of the credit agreement. All outstanding borrowings under the credit agreement are guaranteed by the Company and Brooks Life Sciences, Inc. (fka BioStorage Technologies, Inc.), the Company’s wholly-owned subsidiary (“guarantor”), and subordinated to the obligations under the term loan which are secured by a first priority lien on substantially all of the assets of the Company and the guarantor, other than accounts receivable and inventory. Please refer to Note 8, “Debt”, for further information on the term loan transaction.

As of March 31, 2021, the Company had approximately \$54.2 million available for borrowing under the line of credit. There were no amounts outstanding under the line of credit as of March 31, 2021 and September 30, 2020. The Company records commitment fees and other costs directly associated with obtaining the line of credit facility as deferred financing costs which are amortized over the term of the related financing arrangement. Deferred financing costs were \$0.2 million and \$0.4 million, respectively, at March 31, 2021 and September 30, 2020. The line of credit contains certain customary representations and warranties, a financial covenant and affirmative and negative covenants as well as events of default. The Company was in compliance with the line of credit covenants as of March 31, 2021.

8. Debt

Term Loans

On October 4, 2017, the Company entered into a \$200.0 million term loan with the lenders pursuant to the terms of a credit agreement. The term loan was issued at \$197.6 million, or 98.8% of its par value, resulting in a discount of \$2.4 million, or 1.2%, which represented loan origination fees paid at the closing.

On November 15, 2018, the Company entered into an incremental amendment (the “First Amendment”) to the existing credit agreement. Under the First Amendment, the Company obtained an incremental term loan in an aggregate principal amount of \$350.0 million. The proceeds of the incremental term loan were used to finance a portion of the purchase price for the Company’s acquisition of GENEWIZ Group. The incremental term loan was issued at \$340.5 million, or 97.3% of its par value, resulting in a discount of \$9.5 million, or 2.7%, which represented financing cost of the incremental term loan. Except as provided in the First Amendment, the incremental term loan was subject to the same terms and conditions as set forth in the existing credit agreement.

On February 15, 2019, the Company entered into the second amendment to the credit agreement (the “Second Amendment”) and syndicated the incremental term loan to a group of new lenders which met the criteria of a debt extinguishment. The Company wrote off the carrying value of the incremental term loan of \$340.1 million as of February 15, 2019 and recorded the syndicated incremental term loan at its present value for \$349.1 million and a loss on debt extinguishment for \$9.1 million. The syndicated incremental term loan was issued at \$345.2 million, or 98.9% of its par value, resulting in a discount of \$4.0 million which represented financing costs which are presented as a reduction of the incremental term loan principal balance in the accompanying unaudited Consolidated Balance Sheets and was accreted over the life of the incremental term loan. Except as provided in the Second Amendment with respect to an

increase of the applicable interest rates, the syndicated incremental term loan was subject to the same terms and conditions as the initial incremental term loan.

On July 1, 2019, the Company completed the sale of its semiconductor cryogenics business and used \$348.3 million of the proceeds from the Disposition to extinguish the outstanding balance of the incremental term loan. In addition, the Company used \$147.0 million of the proceeds from the Disposition to extinguish a portion of the outstanding balance of the term loan. The Company recorded a loss on debt extinguishment of \$5.2 million for the two term loans.

The Company's obligations under the term loan are also guaranteed by Brooks Life Sciences, Inc. (fka BioStorage Technologies, Inc.) as the guarantor, subject to the terms and conditions of the credit agreement. The Company and the guarantor granted the lenders a perfected first priority security interest in substantially all of the assets of the Company and the guarantor to secure the repayment of the term loan.

The loan principal amount under the credit agreement may be increased by an aggregate amount equal to \$75.0 million plus any voluntary repayments of the term loan plus any additional amount such that the secured leverage ratio of the Company is less than 3.00 to 1.00.

Subject to certain conditions stated in the credit agreement, the Company may redeem the term loan at any time at its option without a significant premium or penalty, except for a repricing transaction, as defined in the credit agreement. The Company is required to redeem the term loan at the principal amount then outstanding upon occurrence of certain events, including (i) net proceeds received from the sale or other disposition of the Company's or the guarantor's assets, subject to certain limitations, (ii) casualty and condemnation proceeds received by the Company or the guarantor, subject to certain exceptions, or (iii) net proceeds received by the Company or the guarantor from the issuance of debt or disqualified capital stock after October 4, 2017. Commencing on December 31, 2018, the Company was required to make principal payments equal to the excess cash flow amount, as defined in the credit agreement. Such prepayments are equal to 50% of the preceding year excess cash flow amount reduced by voluntary prepayments of the term loan, subject to certain limitations.

The deferred financing costs are accreted over the term of the loan using the effective interest rate method and are included in "Interest expense" in the accompanying unaudited Consolidated Statements of Operations. At March 31, 2021, deferred financing costs were \$0.3 million.

The credit agreement contains certain customary representations and warranties, covenants and events of default. If any of the events of default occur and are not waived or cured within applicable grace periods, any unpaid amounts under the credit agreement will bear an annual interest rate at 2.00% above the rate otherwise applicable under the terms and conditions of such agreement. The credit agreement does not contain financial maintenance covenants. As of March 31, 2021, the Company was in compliance with all covenants and conditions under the credit agreement.

In connection with the GENEWIZ acquisition, the Company assumed three five-year term loans for a total of \$3.3 million and two one-year short term loans for a total of \$3.2 million. The three five-year term loans were initiated during 2016 and mature in 2021. The principal payments are payable in eight installments equal to 12.5% of the initial principal amount of the term loans on December 14th and June 14th of each year. The three five-year term loans were secured by GENEWIZ to fund equipment procurement and new building related payments and the interest rates are equal to the LIBOR plus 3.1%. The two one-year term loans were secured by GENEWIZ to fund operations. Both of the one-year term loans were initiated in 2018 and matured in 2019. The interest rates of these two loans were 4.56% and 4.35%. There are no deferred financing costs related to either the five-year term loans or the one-year term loans. At March 31, 2021, the Company had an aggregate outstanding principal balance of \$0.4 million for the three five-year term loans. Both of the two one-year short term loans matured and were repaid in full during fiscal year 2019.

During the six months ended March 31, 2021, the weighted average stated interest rate paid on all outstanding debt was 2.8%. During the six months ended March 31, 2021, the Company incurred aggregate interest expense of \$0.8 million in connection with the borrowings, including \$0.1 million of deferred financing costs amortization.

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The following are the future minimum principal payment obligations under all of the Company's outstanding debt as of March 31, 2021 (in thousands):

	<u>Amount</u>
Fiscal year ended September 30,	
2021	\$ 414
2022	—
2023	—
2024	—
2025	50,000
Total outstanding principal balance	<u>50,414</u>
Unamortized deferred financing costs	(347)
	<u>50,067</u>
Current portion of long-term debt	414
Non-current portion of long-term debt	<u>\$ 49,653</u>

9. Leases

The Company has operating leases for real estate and non-real estate and finance leases for non-real estate in North America, Europe, and Asia. Non-real estate leases are primarily related to vehicles and office equipment. Lease expiration dates range between 2021 and 2041.

The components of lease expense were as follows (in thousands):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Operating lease costs	\$ 2,649	\$ 2,275	\$ 5,257	\$ 4,397
Finance lease costs:				
Amortization of assets	251	311	563	622
Interest on lease liabilities	6	26	21	55
Total finance lease costs	257	337	584	677
Variable lease costs	539	460	1,064	866
Short-term lease costs	116	132	226	296
Total lease costs	\$ 3,561	\$ 3,204	\$ 7,131	\$ 6,236

Supplemental balance sheet information related to leases is as follows (in thousands, except lease term and discount rate):

	March 31, 2021	September 30, 2020
Operating Leases:		
Operating lease right-of-use assets	\$ 40,203	\$ 39,071
Accrued expenses and other current liabilities	\$ 7,506	\$ 7,015
Long-term operating lease liabilities	32,749	31,855
Total operating lease liabilities	\$ 40,255	\$ 38,870
Finance Leases:		
Property, plant and equipment, at cost	\$ 2,252	\$ 2,540
Accumulated amortization	(1,807)	(1,246)
Property, plant and equipment, net	\$ 445	\$ 1,294
Accrued expenses and other current liabilities	\$ 836	\$ 1,135
Other long-term liabilities	31	348
Total finance lease liabilities	\$ 867	\$ 1,483
Weighted average remaining lease term (in years):		
Operating leases	8.13	8.72
Finance leases	0.91	1.32
Weighted average discount rate:		
Operating leases	4.00 %	3.92 %
Finance leases	4.78 %	4.73 %

Supplemental cash flow information related to leases was as follows (in thousands, unaudited):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Cash paid for amounts included in measurement of liabilities:				
Operating cash flows from operating leases	\$ 2,535	\$ 2,067	\$ 4,998	\$ 3,874
Operating cash flows from finance leases	12	26	27	55
Financing cash flows from finance leases	308	293	612	583

Future lease payments for operating and finance leases as of March 31, 2021 were as follows for the remainder of fiscal year 2021, the subsequent four fiscal years and thereafter (in thousands):

	Operating Leases	Finance Leases
Fiscal year ended September 30,		
2021	\$ 4,835	\$ 527
2022	7,996	363
2023	5,927	-
2024	5,242	-
2025	4,715	-
Thereafter	18,954	-
Total future lease payments	47,669	890
Less imputed interest	(7,414)	(23)
Total lease liability balance	\$ 40,255	\$ 867

As of March 31, 2021, the Company has entered into leases that have not commenced with future lease payments of \$33.7 million. These leases are not yet recorded in the accompanying unaudited Consolidated Balance Sheets. These leases will commence in 2021.

10. Income Taxes

The Company recorded an income tax provision of \$6.3 million and \$11.1 million, respectively, during the three and six months ended March 31, 2021. The tax provision for the three months ended March 31, 2021 was primarily driven by the provision on earnings from operations during the period. The provision for the six months ended March 31, 2021 was primarily driven by the provision on earnings from operations during the period and was partially offset by a \$2.7 million discrete stock compensation windfall benefit for tax deductions that exceeded the associated book compensation expense.

The Company recorded an income tax provision of \$3.4 million and \$0.4 million, respectively, during the three and six months ended March 31, 2020. The tax provision for the three months ended March 31, 2020 was primarily driven by the provision on earnings from operations during the period. The tax provision for the six months ended March 31, 2020 was primarily driven by the provision on earnings from operations during the period. The tax provision was offset by a \$6.1 million discrete stock compensation windfall benefit for tax deductions that exceeded the associated compensation expense in the period. During the six months ended March 31, 2020, the Company also recorded a discrete benefit of \$0.5 million from a reduction of deferred tax liabilities related to the extension of a tax rate incentive in China.

During March 2020, the United States enacted the Coronavirus Aid, Relief, and Economic Security Act which contains numerous income tax provisions among other tax and non-tax provisions. Some of these income tax provisions have retroactive effects on years before the date of enactment. During December 2020, the United States enacted the Consolidated Appropriations Act 2021 which also contains numerous income tax provisions among other tax and non-tax provisions. During March 2021, the United States enacted the American Rescue Plan Act of 2021. The Company evaluated the legislation of all three Acts in relation to income taxes and determined that the income tax Acts do not have a material impact on its income tax provision.

The Company evaluates the realizability of its deferred tax assets by tax-paying component and assesses the need for a valuation allowance on a quarterly basis. The Company evaluates the profitability of each tax-paying component on a historic cumulative basis and a forward-looking basis while performing this analysis. The Company maintains a U.S. valuation allowance related to the realizability of certain state tax credits and state net operating loss carry-forwards, as well as a valuation allowance against net deferred tax assets on certain foreign tax-paying components as of March 31, 2021.

The Company maintains liabilities for uncertain tax positions. These liabilities involve judgment and estimation and are monitored based on the best information available. The Company recognizes interest related to unrecognized tax benefits as a component of the income tax provision or benefit. The Company recognized interest expense related to its uncertain tax positions of \$0.3 million and \$0.6 million, respectively, during the three and six months ended March 31, 2021.

The Company is subject to U.S. federal, state, local and foreign income taxes in various jurisdictions. The amount of income taxes paid is subject to the Company's interpretation of applicable tax laws in the jurisdictions in which it files.

In the normal course of business, the Company is subject to income tax audits in various global jurisdictions in which it operates. The years subject to examination vary for the U.S. and international jurisdictions, with the earliest tax year being 2013. Based on the outcome of these examinations or the expiration of statutes of limitations for specific jurisdictions, it is reasonably possible that the related unrecognized tax benefits could change from those recorded in the Company's Consolidated Balance Sheets. The Company currently anticipates that it is reasonably possible that the unrecognized tax benefits and accrued interest on those benefits will be reduced by an amount of \$18.2 million in the next 12 months due to statute of limitations expirations. These unrecognized tax benefits would impact the effective tax rate if recognized.

11. Other Balance Sheet Information

The following is a summary of accounts receivable at March 31, 2021 and September 30, 2020 (in thousands):

	March 31, 2021	September 30, 2020
Accounts receivable	\$ 231,193	\$ 195,587
Less allowance for expected credit losses	(5,736)	(7,216)
Less allowance for sales returns	(68)	(80)
Accounts receivable, net	<u>\$ 225,389</u>	<u>\$ 188,291</u>

The decrease in the allowance for expected credit losses from September 30, 2020 is due to collections of previously reserved trade receivables in the Brooks Life Sciences Services segment during the first quarter of fiscal year 2021.

The following is a summary of inventories at March 31, 2021 and September 30, 2020 (in thousands):

	March 31, 2021	September 30, 2020
Inventories		
Raw materials and purchased parts	\$ 80,498	\$ 73,609
Work-in-process	19,777	16,461
Finished goods	27,712	24,764
Total inventories	<u>\$ 127,987</u>	<u>\$ 114,834</u>

Reserves for excess and obsolete inventory were \$18.8 million and \$17.1 million, respectively, at March 31, 2021 and September 30, 2020.

At March 31, 2021 and September 30, 2020, the Company had cumulative capitalized direct costs of \$21.1 million and \$18.2 million, respectively, associated with the development of software for its internal use. As of March 31, 2021, this balance included \$5.0 million associated with software still in the development stage which are included within

"Property, plant and equipment, net" in the accompanying unaudited Consolidated Balance Sheets. During the six months ended March 31, 2021, the Company capitalized direct costs of \$2.8 million associated with the development of software for its internal use.

The Company establishes reserves for estimated costs of product warranties based on historical information. Product warranty reserves are recorded at the time product revenue is recognized, and retrofit accruals are recorded at the time retrofit programs are established. The Company's warranty obligation is affected by product failure rates, utilization levels, material usage, service delivery costs incurred in correcting a product failure and supplier warranties on parts delivered to the Company.

The following is a summary of product warranty and retrofit activity on a gross basis for the three and six months ended March 31, 2021 and 2020 (in thousands):

Activity -Three Months Ended March 31, 2021				
Balance December 31, 2020	Accruals	Costs Incurred	Balance March 31, 2021	
\$ 8,228	\$ 1,647	\$ (1,831)	\$ 8,044	
Activity -Three Months Ended March 31, 2020				
Balance December 31, 2019	Accruals	Costs Incurred	Balance March 31, 2020	
\$ 7,493	\$ 2,174	\$ (1,757)	\$ 7,910	
Activity -Six Months Ended March 31, 2021				
Balance September 30, 2020	Accruals	Costs Incurred	Balance March 31, 2021	
\$ 8,201	\$ 4,097	\$ (4,254)	\$ 8,044	
Activity -Six Months Ended March 31, 2020				
Balance September 30, 2019	Accruals	Costs Incurred	Balance March 31, 2020	
\$ 7,175	\$ 4,653	\$ (3,918)	\$ 7,910	

12. Stock-Based Compensation

The Company may issue to eligible employees options to purchase shares of the Company's stock, restricted stock and other equity incentives which vest upon the satisfaction of a performance condition and/or a service condition. In addition, the Company issues shares to participating employees pursuant to an employee stock purchase plan, and stock awards and deferred restricted stock units to its directors in accordance with its director compensation program.

The following table reflects stock-based compensation expense recorded during the three and six months ended March 31, 2021 and 2020 (in thousands):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Restricted stock units	\$ 7,048	\$ 3,921	\$ 13,192	\$ 8,014
Employee stock purchase plan	433	293	999	610
Total stock-based compensation expense	\$ 7,481	\$ 4,214	\$ 14,191	\$ 8,624

The fair value of restricted stock units is determined based on the number of shares granted and the closing price of the Company's common stock quoted on the Nasdaq Stock Market on the date of grant. For awards that vest based on service conditions, the Company recognizes stock-based compensation expense on a straight-line basis over the requisite service period. For awards that vest subject to performance conditions, the Company recognizes stock-based compensation expense ratably over the performance period if it is probable that performance condition will be met and adjusted for the probability percentage of achieving the performance goals. The Company makes estimates of stock award forfeitures and the number of awards expected to vest. The Company considers many factors in developing forfeiture estimates, including award types, employee classes and historical experience. Each quarter, the Company assesses the probability of achieving the performance goals. Current estimates may differ from actual results and future changes in estimates.

The Company grants restricted stock units that vest over a required service period and/or achievement of certain operating performance goals. Restricted stock units granted with performance goals may also have a required service period following the achievement of all or a portion of the performance goals. The following table reflects restricted stock units, including stock awards, granted during the six months ended March 31, 2021 and 2020:

	<u>Total Units</u>	<u>Time-Based Units</u>	<u>Stock Grants</u>	<u>Performance-Based Units</u>
Six months ended March 31, 2021	329,801	149,249	14,657	165,895
Six months ended March 31, 2020	408,827	163,390	23,867	221,570

Time-Based Grants

Restricted stock units granted with a required service period typically have three-year vesting schedules in which one-third of awards vest at the first anniversary of the grant date, one-third vest at the second anniversary of the grant date and one-third vest at the third anniversary of the grant date, subject to the award holders meeting service requirements.

Stock Grants

The stock awards granted to the members of the Company's Board of Directors include stock awards and deferred restricted stock units.

Certain members of the Board of Directors have elected to defer receiving their annual stock awards and related quarterly dividends until they attain a certain age or cease to provide services as the Company's Board members. Stock awards granted in fiscal years 2021 and 2020 were vested as of the respective grant dates.

Performance-Based Grants

Performance-based restricted stock units are earned based on the achievement of performance criteria established by the Human Resources and Compensation Committee and approved by the Board of Directors. The criteria for performance-based awards are weighted and have threshold, target and maximum performance goals.

Performance-based awards granted in fiscal year 2021, 2020 and 2019 allow participants to earn 100% of the restricted stock units if the Company's performance meets its target goal for each applicable financial metric, and up to a maximum of 200% if the Company's performance for such metrics meets or exceeds the maximum or stretch goal. Performance below the minimum threshold for each financial metric results in award forfeiture. Performance goals will be measured over a three-year period for each year's awards and at the end of the period to determine the number of units earned by recipients who continue to meet the service requirement. Around the third anniversary of each year's awards' grant date, the Company's Board of Directors determines the number of units earned for participants who continue to meet the service requirements on the vest date.

Restricted Stock Unit Activity

The following table summarizes restricted stock unit activity for the six months ended March 31, 2021:

	<u>Shares</u>	<u>Weighted Average Grant-Date Fair Value</u>
Outstanding at September 30, 2020	1,183,009	\$ 36.10
Granted	329,801	70.18
Vested	(403,832)	36.08
Forfeited	(30,051)	42.91
Outstanding at March 31, 2021	<u>1,078,927</u>	46.33

The weighted average grant date fair value of restricted stock units granted during the three months ended March 31, 2021 and 2020 was \$80.09 and \$42.22, respectively. The weighted average grant date fair value of restricted stock units granted during the six months ended March 31, 2021 and 2020 was \$70.18 and \$46.64, respectively. The fair value of restricted stock units vested during the three months ended March 31, 2021 and 2020 was \$2.0 million and \$2.9 million, respectively. The fair value of restricted stock units vested during the six months ended March 31, 2021 and 2020 was \$27.9 million and \$41.4 million, respectively. During the six months ended March 31, 2021 and 2020, the Company remitted \$9.7 million and \$24.1 million, respectively, collected from employees to satisfy their tax obligations as a result of share issuances. Such proceeds collected and remitted were insignificant during the three months ended March 31, 2021 and 2020.

As of March 31, 2021, the unrecognized compensation cost related to restricted stock units that are expected to vest is \$32.6 million and will be recognized over an estimated weighted average service period of approximately 1.8 years.

Employee Stock Purchase Plan

The Company maintains an employee stock purchase plan that allows its employees to purchase shares of common stock at a price equal to 85% of the fair market value of the Company's stock at the beginning or the end of the semi-annual offering period, whichever is lower. There were 58,124 and 63,885 shares, respectively, purchased by employees under the employee stock purchase plan during the six months ended March 31, 2021 and 2020.

13. Earnings per Share

The calculations of basic and diluted net income per share and basic and diluted weighted average shares outstanding are as follows for the three and six months ended March 31, 2021 and 2020 (in thousands, except per share data):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Income from continuing operations	\$ 23,932	\$ 9,192	\$ 50,940	\$ 22,366
Loss from discontinued operations, net of tax	(184)	(65)	(1,164)	(182)
Net income	<u>\$ 23,748</u>	<u>\$ 9,127</u>	<u>\$ 49,776</u>	<u>\$ 22,184</u>
Weighted average common shares outstanding used in computing basic earnings per share	74,265	73,708	74,142	73,331
Dilutive restricted stock units	149	81	225	421
Weighted average common shares outstanding used in computing diluted earnings per share	<u>74,414</u>	<u>73,789</u>	<u>74,367</u>	<u>73,752</u>
Basic net income per share:				
Income from continuing operations	\$ 0.32	\$ 0.12	\$ 0.69	\$ 0.30
Loss from discontinued operations, net of tax	(0.00)	(0.00)	(0.02)	(0.00)
Basic net income per share	<u>\$ 0.32</u>	<u>\$ 0.12</u>	<u>\$ 0.67</u>	<u>\$ 0.30</u>
Diluted net income per share:				
Income from continuing operations	\$ 0.32	\$ 0.12	\$ 0.68	\$ 0.30
Loss from discontinued operations, net of tax	(0.00)	(0.00)	(0.02)	(0.00)
Diluted net income per share	<u>\$ 0.32</u>	<u>\$ 0.12</u>	<u>\$ 0.67</u>	<u>\$ 0.30</u>
Dividend declared per share	\$ 0.10	\$ 0.10	\$ 0.20	\$ 0.20

During the three and six months ended March 31, 2021, restricted stock units of 2,296 and 31,105, respectively, were excluded from the computation of diluted earnings per share as their effect would be antidilutive based on the treasury stock method. During the three and six months ended March 31, 2020, restricted stock units of 190,723 and 167,161, respectively, were excluded from the computation of diluted earnings per share as their effect would be antidilutive based on the treasury stock method.

14. Revenue from Contracts with Customers

Disaggregated Revenue

The Company disaggregates revenue from contracts with customers in a manner that depicts how the nature, amount, timing, and uncertainty of revenue and cash flows are affected by economic factors. The Company disaggregates revenue based on the geographic location in which customer orders are placed and by reporting unit.

Revenue from contracts with customers is attributed to geographic areas based on locations in which the customer orders are placed. The Company has three operating and reportable segments consisting of Brooks Semiconductor Solutions Group, Brooks Life Sciences Products and Brooks Life Sciences Services. The Company has six reporting units, including three reporting units within the Brooks Semiconductor Solutions Group operating segment, one reporting unit within Brooks Life Sciences Products operating segment, and two reporting units within the Brooks Life

Sciences Services operating segment. The following is revenue by geographic location and reporting unit for the three and six months ended March 31, 2021 and 2020 (in thousands):

	Three months ended March 31,		Six months ended March 31,	
	2021	2020	2021	2020
Geographic Location				
North America	\$ 105,643	\$ 85,887	\$ 203,376	\$ 166,118
Asia/Pacific/Other	132,278	105,014	244,052	208,553
Europe	48,665	29,326	88,661	56,056
Total	<u>\$ 286,586</u>	<u>\$ 220,227</u>	<u>\$ 536,089</u>	<u>\$ 430,727</u>
Reporting Unit				
Automation Solutions	\$ 107,547	\$ 68,733	\$ 197,970	\$ 132,970
Contamination Control Solutions	37,285	45,463	66,494	89,804
Global Semiconductor Services	12,219	10,727	23,945	20,960
Total Brooks Semiconductor Solutions Group	157,051	124,923	288,409	243,734
Brooks Life Sciences Products	52,355	30,993	97,866	60,717
Sample Repository Solutions	22,191	23,296	42,724	45,290
GENEWIZ	54,989	41,015	107,090	80,986
Total Brooks Life Sciences Services	<u>77,180</u>	<u>64,311</u>	<u>149,814</u>	<u>126,276</u>
Total	<u>\$ 286,586</u>	<u>\$ 220,227</u>	<u>\$ 536,089</u>	<u>\$ 430,727</u>

Contract Balances

Accounts Receivable, Net. Accounts receivable represent rights to consideration in exchange for products or services that have been transferred by the Company, when payment is unconditional and only the passage of time is required before payment is due. Accounts receivable do not bear interest and are recorded at the invoiced amount. The Company maintains an allowance for expected credit losses representing its best estimate of probable credit losses related to its existing accounts receivable and their net realizable value. The Company determines the allowance for expected credit losses based on a number of factors, including an evaluation of customer credit worthiness, the age of the outstanding receivables, economic trends, historical experience and other information through the payment periods. Accounts receivable, net were \$225.4 million and \$188.3 million at March 31, 2021 and September 30, 2020, respectively.

Contract Assets. Contract assets represent rights to consideration in exchange for products or services that have been transferred by the Company, when payment is conditional on something other than the passage of time. These amounts typically relate to contracts within the life sciences segments where the right to payment is not present until completion of the contract or the achievement of specified milestones and the value of the products or services transferred exceed this constraint. Contract assets are classified as current. Contract asset balances which are included within "Prepaid expenses and other current assets" on the Company's Consolidated Balance Sheet, were \$13.7 million and \$16.8 million at March 31, 2021 and September 30, 2020, respectively.

Deferred Commissions. Deferred commissions represent a direct and incremental cost of obtaining a contract. These amounts primarily relate to sales commissions within the life sciences segments and are deferred and amortized over a 60-month period, which represents the average period of contract performance. The Company classifies deferred commissions as noncurrent as the original amortization period of this asset is greater than one year. Deferred commissions balances are included within "Other assets" on the Company's Consolidated Balance Sheet. Deferred commissions were \$0.3 million and \$0.4 million, respectively, at March 31, 2021 and September 30, 2020. The Company recorded amortization expense related to deferred commissions of less than \$0.1 million and \$0.1 million for the three months ended March 31, 2021 and 2020, respectively. The Company recorded amortization expense related to deferred commissions of \$0.1 million and \$0.3 million for the six months ended March 31, 2021 and 2020, respectively.

Contract Liabilities. Contract liabilities represent the Company's obligation to transfer products or services to a customer for which consideration has been received, or for which an amount of consideration is due from the customer. Contract assets and liabilities are reported on a net basis at the contract level, depending on the contracts position at the end of each reporting period. Contract liabilities are included within "Deferred revenue" on the Company's Consolidated Balance Sheet. Contract liabilities were \$36.8 million and \$31.4 million at March 31, 2021 and September 30, 2020, respectively. Revenue recognized from the contract liability balance at September 30, 2020 was \$24.8 million for the six months ended March 31, 2021.

Remaining Performance Obligations. Remaining performance obligations represent the transaction price of unsatisfied or partially satisfied performance obligations within contracts with an original expected contract term that is greater than one year and for which fulfillment of the contract has started as of the end of the reporting period. The aggregate amount of transaction consideration allocated to remaining performance obligations as of March 31, 2021 was \$77.1 million. The following table summarizes when the Company expects to recognize the remaining performance obligations as revenue; the Company will recognize revenue associated with these performance obligations as transfer of control occurs (in thousands):

	As of March 31, 2021		
	Less than 1 Year	Greater than 1 Year	Total
Remaining Performance Obligations	\$ 54,311	\$ 22,805	\$ 77,116

Cost to Obtain and Fulfill a Contract

The Company capitalizes sales commissions when incurred if they are (i) incremental costs of obtaining a contract, (ii) expected to be recovered and (iii) have an expected amortization period that is greater than one year. As part of the Company's cumulative effect adjustment, incremental costs associated with obtaining a contract were capitalized and have been classified as deferred commissions within the Company's Consolidated Balance Sheet. These amounts primarily relate to sales commissions within the Brooks Life Sciences segments and are being amortized over a 60-month period, which represents the average period of contract performance. The Company did not capitalize any sales commissions during the three and six months ended March 31, 2021 as the amount of sales commissions that qualified for capitalization during the reporting period was insignificant. Sales commissions incurred during the reporting period have been expensed as incurred. These costs are recorded within "Selling, general and administrative" expenses on the Company's Consolidated Statement of Operations. The Company has concluded that none of its costs incurred in fulfillment of customer contracts meet the capitalization criteria. The Company will account for shipping and handling activities as fulfillment activities and recognize the associated expense when control of the product has transferred to the customer.

15. Segment Information

Operating segments are defined as components of an enterprise that engage in business activities for which discrete financial information is available and regularly reviewed by the chief operating decision maker in deciding how to allocate resources and to assess performance. The Company's Chief Executive Officer is the Company's chief operating decision maker.

The Company operates in three reportable segments: the Brooks Semiconductor Solutions Group segment, the Brooks Life Sciences Services segment and the Brooks Life Sciences Products segment. These reportable segments also represent the Company's operating segments. The Company previously operated in two reportable segments: the Brooks Semiconductor Solutions Group segment and the Brooks Life Sciences segment. The Brooks Life Sciences segment consisted of the Sample Management operating segment and the GENEWIZ operating segment that aggregated into one reportable segment. During fiscal year 2020, the Company reorganized its operating segments to better align with its business activities in connection with its recent acquisitions and the Company's strategic vision. Historical information has been adjusted to reflect the new reportable segments.

The Brooks Semiconductor Solutions Group segment provides a variety of products, services and solutions that enable improved throughput and yield in controlled operating environments, as well as an extensive range of support services. The solutions include atmospheric and vacuum robots, robotic modules, tool automation systems, contamination control of carrier pods and reticle storage. The support services include repair services, diagnostic support services, and installation services in support of the products, which enable customers to maximize process tool uptime and productivity. This segment also provides end-user customers with spare parts and enhancement upgrades to maximize tool productivity.

The Brooks Life Sciences Products segment provides automated cold sample management systems for compound and biological sample storage, equipment for sample preparation and handling, consumables and instruments, that help customers manage samples throughout their research discovery and development workflows. The segment's product offerings include automated cold storage systems, cryogenic storage systems, consumables and instruments and the associated services business for these products.

The Brooks Life Sciences Services segment provides comprehensive sample management programs, integrated cold chain solutions, informatics, as well as sample-based laboratory services to advance scientific research and support drug development. The segment's service offerings include sample storage, genomic sequencing, gene synthesis, laboratory processing services, laboratory analysis, and other support services which are provided to a wide range of life science customers, including pharmaceutical companies, biotechnology companies, biorepositories and research institutes.

The Company considers adjusted operating income, which excludes charges related to amortization of completed technology, the acquisition accounting impact on inventory contracts acquired and restructuring related charges as the primary performance metric when evaluating the business.

The following is the summary of the financial information for the Company's reportable segments for the three and six months ended March 31, 2021 and 2020 (in thousands):

	Three Months Ended March 31,		Six Months Ended March 31,	
	2021	2020	2021	2020
Revenue:				
Brooks Semiconductor Solutions Group	\$ 157,051	\$ 124,923	\$ 288,409	\$ 243,734
Brooks Life Sciences Products	52,355	30,993	97,866	60,717
Brooks Life Sciences Services	77,180	64,311	149,814	126,276
Total revenue	<u>\$ 286,586</u>	<u>\$ 220,227</u>	<u>\$ 536,089</u>	<u>\$ 430,727</u>
Operating income:				
Brooks Semiconductor Solutions Group	\$ 33,302	\$ 16,707	\$ 54,840	\$ 31,707
Brooks Life Sciences Products	11,215	2,144	19,157	2,506
Brooks Life Sciences Services	13,406	5,973	27,717	11,585
Reportable segment adjusted operating income	<u>57,923</u>	<u>24,824</u>	<u>101,714</u>	<u>45,798</u>
Amortization of completed technology	2,319	2,740	4,708	5,416
Amortization of other intangible assets	7,601	7,615	14,957	15,525
Restructuring charges	92	578	179	1,154
Tariff adjustment	5,497	—	5,497	—
Other unallocated corporate expenses (income)	11,909	(681)	14,939	(1,535)
Total operating income	<u>30,505</u>	<u>14,572</u>	<u>61,434</u>	<u>25,238</u>
Interest income	18	137	94	836
Interest expense	(452)	(718)	(1,008)	(1,455)
Other income (expenses), net	149	(1,399)	1,478	(1,816)
Income before income taxes	<u>\$ 30,220</u>	<u>\$ 12,592</u>	<u>\$ 61,998</u>	<u>\$ 22,803</u>

Assets:	Brooks			
	Semiconductor Solutions Group	Brooks Life Sciences Products	Brooks Life Sciences Services	Total
March 31, 2021	\$ 322,423	\$ 230,732	\$ 766,741	\$ 1,319,896
September 30, 2020	296,289	214,196	737,967	1,248,452

The following is a reconciliation of the Company's reportable segments' segment assets to the corresponding amounts presented in the accompanying unaudited Consolidated Balance Sheets as of March 31, 2021 and September 30, 2020 (in thousands):

	March 31, 2021	September 30, 2020
Segment assets	\$ 1,319,896	\$ 1,248,452
Cash and cash equivalents, restricted cash, and marketable securities	334,336	305,694
Deferred tax assets	9,864	4,979
Total assets	<u>\$ 1,664,096</u>	<u>\$ 1,559,125</u>

16. Significant Customers

The Company had no customer that accounted for 10% or more of its consolidated revenue during the three and six months ended March 31, 2021. The Company had one customer that accounted for 10% or more of its consolidated revenue, at 16% and 15%, respectively, during the three and six months ended March 31, 2020. There were no customers that accounted for more than 10% of the Company's accounts receivable balances as of March 31, 2021 and September 30, 2020.

17. Commitments and Contingencies

GENEWIZ Tariff Matter

As part of the Company's continued integration of GENEWIZ, which was acquired in November 2018, the Company initiated a review, with the assistance of a third party consultant, of the transaction value that the Company has used to calculate tariffs on inter-company imports of samples shipped from its GENEWIZ business. As a result of the third-party review and in light of a new interpretation surrounding the valuation method used to calculate the estimated transaction value, the Company revised its estimate of the tariffs owed and as a result recorded a liability of \$6.1 million in the second quarter of 2021. Of the total liability, \$2.8 million is for the period prior to the acquisition of GENEWIZ and an additional \$3.3 million is for the period since the Company acquired GENEWIZ in November 2018. The Company intends to pay any tariffs determined to be owed. The Company does not expect to incur any significant penalties associated with such tariffs. As a result of the change in estimate, basic net income per share decreased \$0.07 for both the three and six months ended March 31, 2021. Diluted net income per share also decreased \$0.07 for the same periods.

Letters of Credit

As of March 31, 2021, the Company had approximately \$1.3 million of letters of credit outstanding related primarily to customer advances and other performance obligations. These arrangements guarantee the refund of advance payments received from the Company's customers in the event that the product is not delivered, or warranty obligations are not fulfilled in accordance with the contract terms. These obligations could be called by the beneficiaries at any time before the expiration date of the particular letter of credit if the Company fails to meet certain contractual requirements. None of these obligations were called during the six months ended March 31, 2021, and the Company currently does not anticipate any of these obligations to be called in the near future.

Purchase Commitments

At March 31, 2021, the Company had non-cancellable commitments of \$266.4 million, including primarily purchase orders for inventory of \$230.1 million, information technology related commitments of \$19.8 million, and China facility commitments of \$15.8 million.

Contingencies

The Company is subject to various legal proceedings, both asserted and unasserted, that arise in the ordinary course of business. The Company cannot predict the ultimate outcome of such legal proceedings or in certain instances provide reasonable ranges of potential losses. The Company may also have certain indemnification obligations pursuant to claims made under the definitive agreement it entered into with Edwards in connection with the Company's sale of its semiconductor cryogenics business. See Note 3 "Discontinued Operations" for further information. However, as of the date of this report, the Company believes that none of these claims will have a material adverse effect on its consolidated financial position or results of operations. In the event of unexpected subsequent developments and given the inherent unpredictability of these matters, there can be no assurance that the Company's assessment of any claim will reflect the ultimate outcome, and an adverse outcome in certain matters could, from time to time, have a material adverse effect on the Company's consolidated financial position or results of operations in particular quarterly or annual periods.

18. Subsequent Events

Acquisition

On April 23, 2021, the Company entered into an agreement to acquire collaborative robots and automation subsystems developer Precise Automation, Inc., a leading developer of collaborative robots and automation subsystems headquartered in Fremont, CA. The acquisition was completed on April 29, 2021 for a total cash purchase price of

approximately \$70.0 million, subject to working capital and other adjustments. The acquisition is expected to expand the Company's existing offerings within the Brooks Semiconductor Solutions Group segment.

Spin-off

On May 10, 2021, the Company announced its intent to spin off its Semiconductor Solutions Group business into an independent publicly-traded company through a pro rata distribution to our common stockholders. Completion of the proposed spin-off is subject to certain conditions, including final approval by our Board of Directors. The Company is targeting to complete the separation of the business before the end of calendar year 2021.

Dividend

On April 27, 2021, the Company's Board of Directors declared a cash dividend of \$0.10 per share payable on June 25, 2021 to common stockholders of record as of June 4, 2021. Dividends are declared at the discretion of the Company's Board of Directors and depend on the Company's actual cash flows from operations, its financial condition and capital requirements and any other factors the Company's Board of Directors may consider relevant. Future dividend declarations, as well as the record and payment dates for such dividends, will be determined by the Company's Board of Directors on a quarterly basis.

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

The Management's Discussion and Analysis of Financial Condition and Results of Operations, or MD&A, describes principal factors affecting the results of our operations, financial condition and liquidity as well as our critical accounting policies and estimates that require significant judgment and thus have the most significant potential impact on our unaudited consolidated financial statements included elsewhere in this Quarterly Report on Form 10-Q. Our MD&A is organized as follows:

- *Overview.* This section provides a general description of our business and operating segments as well as a brief discussion and overall analysis of our business and financial performance, including key developments affecting the Company during the three and six months ended March 31, 2021 and 2020.
- *Critical Accounting Policies and Estimates.* This section discusses accounting policies and estimates that require us to exercise subjective or complex judgments in their application. We believe these accounting policies and estimates are important to understanding the assumptions and judgments incorporated in our reported financial results.
- *Results of Operations.* This section provides an analysis of our financial results for the three and six months ended March 31, 2021 as compared to the three and six months ended March 31, 2020.
- *Liquidity and Capital Resources.* This section provides an analysis of our liquidity and changes in cash flows as well as a discussion of available borrowings and contractual commitments.

You should read the MD&A in conjunction with our unaudited consolidated financial statements and related notes included elsewhere in this Quarterly Report on Form 10-Q. In addition to historical information, the MD&A contains forward-looking statements that involve risks and uncertainties. You should read "Information Related to Forward-Looking Statements" below for a discussion of important factors that could cause our actual results to differ materially from our expectations.

In the fourth quarter of fiscal year 2018, we entered into a definitive agreement to sell our semiconductor cryogenics business to Edwards Vacuum LLC (a member of the Atlas Copco Group), or Edwards, for approximately \$675.0 million in cash, which was subject to customary adjustments. We originally acquired the semiconductor cryogenics business in 2005 as part of the acquisition of Helix Technology Corporation. On July 1, 2019, we completed the sale of the semiconductor cryogenics business. Any results related to the semiconductor cryogenics business have been classified as discontinued operations.

Impact of the COVID-19 Pandemic

During the COVID-19 pandemic, our facilities have remained operational with only required personnel on site, and the balance of employees working from home. Both our semiconductor and life sciences segments fall within the classification of "Essential Critical Infrastructure Sector" as defined by the U.S. Department of Homeland Security and have continued operations during the COVID-19 pandemic. We have followed government guidance in each region and country and have implemented U.S. Centers for Disease Control and Prevention social distancing guidelines and other applicable best practices to protect the health and safety of our employees. In the Life Sciences business, our operations are accepting customer orders for all of their offerings and are fast tracking customer requests which support research and development and testing related to the COVID-19 virus. The Semiconductor Solutions business continues to supply critical chip manufacturing equipment and support services globally. The COVID-19 pandemic has not had a substantial negative impact on our financial results and a portion of the impact has been mitigated by our realignment of resources to satisfy incremental orders related to virus research. Future impacts on the Company's financial results will depend on multiple variables which are not fully determinable, as the full impact of the pandemic on the economy and markets which we serve is as yet unknown. The variables are many, but fundamentally include reduced demand from the Company's customers, the degree that the supply chain may be constrained which could impact the Company's delivery

of product and the potential impact to our operations if there is a significant outbreak among our employees, as well as the amount of incremental demand caused by research and treatments in the areas of COVID-19 or related threats.

Information Related to Forward-Looking Statements

This Quarterly Report on Form 10-Q contains statements that are, or may be considered to be, forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995, as amended, Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, or the Exchange Act. All statements that are not historical facts, including statements about our beliefs or expectations, are forward-looking statements. These statements may be identified by such forward-looking terminology as “expect,” “estimate,” “intend,” “believe,” “anticipate,” “may,” “will,” “should,” “could,” “continue,” “likely” or similar statements or variations of such terms. Forward-looking statements include, but are not limited to, statements that relate to our future revenue, margins, costs, earnings, profitability, product development, demand, acceptance and market share, competitiveness, market opportunities and performance, levels of research and development, the success of our marketing, sales and service efforts, outsourced activities, operating expenses, anticipated manufacturing, customer and technical requirements, the ongoing viability of the solutions that we offer and our customers’ success, tax expenses, our management’s plans and objectives for our current and future operations and business focus, the impact of the COVID-19 pandemic, the expected benefits and other statements relating to our divestitures and acquisitions, our adoption of newly issued accounting guidance, the levels of customer spending, general economic conditions, the sufficiency of financial resources to support future operations, and capital expenditures. Such statements are based on current expectations and involve risks, uncertainties and other factors which may cause the actual results, our performance or our achievements to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Such factors include the Risk Factors which are set forth in our [Annual Report on Form 10-K for the fiscal year ended September 30, 2020, or the 2020 Annual Report on Form 10-K](#), filed with the U.S. Securities and Exchange Commission, or SEC, on November 18, 2020, as updated and/or supplemented in subsequent filings with the SEC. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof and are based on information currently and reasonably known to us. We do not undertake any obligation to release revisions to these forward-looking statements to reflect events or circumstances that occur after the date of this Quarterly Report on Form 10-Q or to reflect the occurrence or effect of anticipated or unanticipated events. Precautionary statements made herein should be read as being applicable to all related forward-looking statements wherever they appear in this Quarterly Report on Form 10-Q. Any additional precautionary statements made in our 2020 Annual Report on Form 10-K should be read as being applicable to all related forward-looking statements whenever they appear in this Quarterly Report on Form 10-Q.

Unless the context indicates otherwise, references in this Quarterly Report on Form 10-Q to “we”, “us”, “our” and “the Company” refer to Brooks Automation, Inc. and its consolidated subsidiaries.

OVERVIEW

We are a leading global provider of semiconductor manufacturing automation solutions for the semiconductor industry, and life science sample-based services and solutions for the life sciences market. In the semiconductor manufacturing market, we provide precision robotics, integrated automation systems and contamination control solutions to semiconductor fabrication plants, or fabs, and original equipment manufacturers, or OEMs, worldwide. In the life sciences market, we offer a full suite of services and solutions for analyzing, managing, and storing biological and chemical compound samples to advance research and development for clinical, pharmaceutical, and other scientific endeavors. Our life sciences solutions include gene sequencing and synthesis, a broad suite of high-throughput automated cryogenic storage products, related consumables, sample inventory software, as well as fully outsourced solutions for sample storage, transport, and inventory management. Our leadership positions and our global support capability in each of these markets make us a valued business partner to the largest semiconductor and semiconductor capital equipment manufacturers and pharmaceutical and life sciences research institutions in the world. In total, we employ approximately 3,200 full-time employees worldwide and have sales in more than 50 countries. We are headquartered in Chelmsford, Massachusetts and have operations in North America, Asia, and Europe.

In the semiconductor capital equipment market, equipment productivity and availability are critical factors for our customers, who typically operate equipment under demanding temperature and/or vacuum environments. We are a leader in wafer automation and contamination controls solutions and services that are designed to improve throughput, yield, and cost of ownership of tools in semiconductor fabs. Our product offerings include vacuum and atmospheric robots, turnkey vacuum and atmospheric wafer handling systems, as well as wafer carrier cleaning and reticle storage systems. We also capture the complete life cycle of value through our global service network of expert application and field engineers who are located close to our customers. Our services include rapid refurbishment of robots to stringent specifications, upgrades to improve equipment productivity, and proactive monitoring and diagnostics for predictive risk management and improved up-time of the installed base. A majority of our research and development spending advances our current product lines and drives innovations for new product offerings. We invest in research and development initiatives within the Brooks Semiconductor Solutions Group segment to maintain continued leadership position in the markets we serve. Our investments in Vacuum Automation and Contamination Control include ramping our intelligent vacuum robot platform, MagnaTran LEAP™, with new designs at customers releasing tools for semiconductor technology nodes at 10 nanometers and below. In addition, our new PuroMaxx LEAP™ carrier clean product line brings new innovation to handle new contamination control challenges at 3nm and below. As the market for extreme ultraviolet, or EUV, lithography expands, we will continue our investment in EUV pod cleaning and reticle storage. Our initiatives with our Guardian LEAP™ product line for EUV reticle storage will employ new innovation to solve many contamination challenges with EUV reticles.

In the life sciences sample management market, we utilize our core technology competencies and capabilities in automation and cryogenics to provide comprehensive bio-sample management solutions to a broad range of end markets within the life sciences industry. Our offerings include automated ultra-cold storage freezers, consumable sample storage containers, instruments which assist in the workflow of sample management, and both on-site and off-site full sample management services. We expect the life sciences sample management market to remain one of our principal markets for our product and service offerings and provide favorable opportunities for the growth of our overall business. Over the past several years, we have acquired and developed essential capabilities required to strategically address the sample management needs across multiple end markets within the life sciences industry.

Our life sciences portfolio includes products and services that we acquired to bring together a comprehensive capability to service our customers' needs in the sample-based services arena. We continue to develop the acquired products and services offerings through the combined expertise of the newly acquired teams and our existing research and development resources. This approach of acquisition, investment, and integration has allowed us to accelerate our internal development and that of the acquired entity, significantly decreasing our time to market.

We have also strengthened and broadened our product portfolio and market reach by investing in internal product development. For the fiscal years ended 2020, 2019 and 2018, more than 29% of our cumulative research and development spending was focused on innovating and advancing solutions in the life sciences market. We expect to continue investing in research and development and making strategic acquisitions with the objective of expanding our offerings in the life sciences market. Within our Life Sciences Products segment, we have developed and continue to develop automated biological sample storage solutions for operating in ultra-low temperature environments. Our customers are using our automated storage solutions from room temperature to -196°. Our BioStore™ II's unique design allows dual temperature storage down to -80°C with the industry's highest throughput of sample retrieval. We recently launched the BioStore™ IIIv that compliments the BioStore™ III Cryo product line and offers improved data management and sample security for vaccines and biologics stored at -80°C. Within our Life Sciences Services segment, our GENEWIZ business advances research and development activities in gene sequencing, synthesis and related services to meet market demands. Recently, enabled by newly developed proprietary technologies, GENEWIZ launched a portfolio of new services, targeting analysis of adeno-associated virus, a common vector used in cell and gene therapy. We will continue to focus on developing processes and technologies that can streamline sample to data workflow.

Business and Financial Performance

Three Months Ended March 31, 2021 Compared to Three Months Ended March 31, 2020

Results of Operations - Revenue for the three months ended March 31, 2021 increased 30% to \$286.6 million, as compared to the corresponding period of the prior fiscal year. Gross margin was 44.4% for the three months ended March 31, 2021, as compared to 41.0% for the corresponding period of the prior fiscal year, an increase in gross profit of \$37.0 million. Operating expenses were \$96.8 million during the three months ended March 31, 2021, as compared to \$75.7 million during the corresponding period of the prior fiscal year, an increase of \$21.1 million. Operating income was \$30.5 million during the second quarter of fiscal year 2021, as compared to \$14.6 million for the corresponding period of the prior fiscal year. Income from continuing operations was \$23.9 million for the second quarter of fiscal year 2021, as compared to \$9.2 million for the corresponding period of the prior fiscal year.

Six Months Ended March 31, 2021 Compared to Six Months Ended March 31, 2020

Results of Operations - Revenue for the six months ended March 31, 2021 increased 24% to \$536.1 million, as compared to the corresponding period of the prior fiscal year. Gross margin was 44.8% for the six months ended March 31, 2021, as compared to 40.7% for the corresponding period of the prior fiscal year, an increase in gross profit of \$65.1 million. Operating expenses were \$179.0 million during the six months ended March 31, 2021, as compared to \$150.0 million during the corresponding period of the prior fiscal year, an increase of \$28.9 million. Operating income was \$61.4 million during the six months ended March 31, 2021, as compared to \$25.2 million for the corresponding period of the prior fiscal year. Income from continuing operations was \$50.9 million for the six months ended March 31, 2021, as compared to \$22.4 million for the corresponding period of the prior fiscal year.

March 31, 2021 Compared to September 30, 2020

Cash Flows and Liquidity - Cash, cash equivalents, restricted cash and marketable securities were \$334.3 million at March 31, 2021, as compared to \$305.7 million at September 30, 2020. The increase of \$28.6 million from September 30, 2020 was comprised of cash inflows of \$77.9 million from operating activities; partially offset by outflows from investing and financing activities which include \$25.5 million for capital expenditures, \$15.1 million for an acquisition, and \$14.9 million for dividends. Cash inflows from operating activities was comprised of \$86.5 million of earnings, including \$49.8 million of net income and \$36.7 million of adjustments to net income for non-cash items, partially offset by \$8.5 million of cash used for the changes in operating assets and liabilities.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

Our unaudited consolidated financial statements are prepared in accordance with Generally Accepted Accounting Principles, or GAAP. The preparation of the interim consolidated financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenue and expenses, and related disclosure of contingent assets and liabilities. On an ongoing basis, we evaluate our estimates, including those related to revenue, intangible assets, goodwill, inventories, income taxes, and stock-based compensation. We base our estimates on historical experience and various other assumptions that are believed to be reasonable under the circumstances. We evaluate current and anticipated worldwide economic conditions, both in general and specifically in relation to the semiconductor and life science industries, that serve as a basis for making judgments about the carrying values of assets and liabilities that are not readily determinable based on information from other sources. Actual results may differ from these estimates under different assumptions or conditions that could have a material impact on our financial condition and results of operations.

For further information with regard to our significant accounting policies and estimates, please refer to Note 2, "Summary of Significant Accounting Policies" in the Notes to the unaudited consolidated financial statements included in Item 1 "Consolidated Financial Statements" of this Quarterly Report on Form 10-Q and in the Notes to our audited consolidated financial statements included in Part II, Item 8 "Financial Statements and Supplementary Data" in our 2020 Annual Report on Form 10-K.

Recently Issued and Adopted Accounting Pronouncements

For a summary of recently issued and adopted accounting pronouncements applicable to our unaudited consolidated financial statements, please refer to Note 2, "Summary of Significant Accounting Policies" in the Notes to the unaudited consolidated financial statements included in Item 1 "Consolidated Financial Statements" of this Quarterly Report on Form 10-Q.

RESULTS OF OPERATIONS

Three and Six Months Ended March 31, 2021 Compared to Three and Six Months Ended March 31, 2020

Revenue

We reported revenue of \$286.6 million for the three months ended March 31, 2021, as compared to \$220.2 million for the corresponding period of the prior fiscal year, an increase of \$66.4 million, or 30%. We reported revenue of \$536.1 million for the six months ended March 31, 2021, as compared to \$430.7 million for the corresponding period of the prior fiscal year, an increase of \$105.4 million, or 24%. The COVID-19 pandemic has had varying impacts on our business for the three and six months ended March 31, 2021. Further discussion of these impacts by each segment are discussed in the paragraphs below.

Our Brooks Semiconductor Solutions Group segment reported revenue of \$157.1 million for the three months ended March 31, 2021, compared to \$124.9 million for the corresponding period of the prior fiscal year, an increase of \$32.1 million, or 26%. During the three months ended March 31, 2021, Automation revenue increased \$38.8 million, driven by vacuum robots and systems, and services revenue increased \$1.5 million. These increases were partially offset by a decline in contamination control solutions revenue of \$8.2 million. For the six months ended March 31, 2021, our Brooks Semiconductor Solutions Group segment reported revenue of \$288.4 million, compared to \$243.7 million for the corresponding period of the prior fiscal year, an increase of \$44.7 million, or 18%. During the six months ended March 31, 2021, Automation revenue increased \$65.0 million, driven by vacuum robots and systems, and services revenue increased \$3.0 million. These increases were partially offset by a decline in contamination control solutions revenue of \$23.3 million. The semiconductor markets are cyclical and may fluctuate significantly from quarter to quarter. Demand for our Brooks Semiconductor Solutions Group segments' products and services is affected by these cycles and a prolonged effect of the COVID-19 pandemic could negatively impact demand for our products and services in this segment. To date, we have experienced some disruption in our supply chain and operations as a result of the COVID-19 pandemic, which has impacted the timing of some shipments to customers. We do not believe, however, that COVID-19 pandemic has resulted in a negative impact to our bookings or demand for our products in this segment.

Our Brooks Life Sciences Products segment reported revenue of \$52.4 million for the three months ended March 31, 2021, as compared to \$31.0 million for the corresponding period of the prior fiscal year, an increase of \$21.4 million, or 69%. For the six months ended March 31, 2021, our Brooks Life Sciences Products segment reported revenue of \$97.9 million, as compared to \$60.7 million for the corresponding period of the prior fiscal year, an increase of \$37.1 million, or 61%. The increase in revenue for both the three and six months ended March 31, 2021 as compared to the same periods in the prior year was primarily driven by demand for consumables and instruments. Revenue related to our automation cold sample management systems and infrastructure services also contributed to the increase in revenues in these periods.

Our Brooks Life Sciences Services segment reported revenue of \$77.2 million for the three months ended March 31, 2021, as compared to \$64.3 million for the corresponding period of the prior fiscal year, an increase of \$12.9 million, or 20%. Revenue from GENEWIZ increased \$14 million, or 34%, as compared to the prior period. All service lines increased with the most significant impact coming from gene synthesis services and next generation sequencing. We reported a decrease in revenue from Sample Repository Services of \$1.1 million due to a decline in outsourced genomic services which were provided through an alliance with Infinity BiologiX LLC, formerly RUCDR, that was terminated in the fourth quarter of fiscal year 2020. Offsetting the decline in Sample Repository Services revenue were increases across several product lines, including storage services, sample administration and informatics, which was driven by the acquisition of RURO, Inc., or RURO. In total, the acquisitions of RURO in February 2020 and Trans-Hit

Biomarkers Inc., or THB, in December 2020 added \$2.3 million of revenue for the three months ended March 31, 2021, as compared to the prior year period. For the six months ended March 31, 2021, our Brooks Life Sciences Services segment reported revenue of \$149.8 million, as compared to \$126.3 million for the corresponding period of the prior fiscal year, an increase of \$23.5 million, or 19%. Revenue from GENEWIZ increased \$26.1 million, or 32%, as compared to the prior period. All service lines increased with the most significant impact coming from gene synthesis services and next generation sequencing. We reported a decrease in revenue from Sample Repository Services of \$2.7 million due to the decline in outsourced genomic services as described previously. Offsetting this decline were increases across several product lines, including storage services and informatics, which was driven by the acquisition of RURO. In total, the acquisitions of RURO and THB added \$4.0 million of revenue for the six months ended March 31, 2021 as compared to the prior year period.

We estimate the impact of the COVID-19 pandemic on our two life sciences segments' revenue for the three and six months ended March 31, 2021, was to increase revenue by approximately \$17 million and \$28 million, respectively.

Revenue generated outside the United States was \$182.2 million, or 64% of total revenue, for the three months ended March 31, 2021, as compared to \$135.1 million, or 61% of total revenue, for the corresponding period of the prior fiscal year. Revenue generated outside the United States was \$335 million, or 62% of total revenue, for the six months ended March 31, 2021, as compared to \$265.9 million, or 62% of total revenue, for the corresponding period of the prior fiscal year. We had no customer that accounted for more than 10% of our consolidated revenue for the three and six months ended March 31, 2021. We had one customer that accounted for more than 10% of our consolidated revenue for the three and six months ended March 31, 2020.

Operating Income

We reported operating income of \$30.5 million for the three months ended March 31, 2021, as compared to \$14.6 million for the three months ended March 31, 2020. The increase of 109% was driven by higher gross profit of \$37.0 million, partially offset by an increase in operating expenses of \$21.1 million. Within operating expenses, selling, general, and administrative expenses increased \$19.9 million, and research and development expenses increased \$1.6 million. Restructuring expenses decreased \$0.5 million. Operating income for the three and six months ended March 31, 2021 included \$5.5 million of cost accrued for tariff liabilities on intercompany import activity in fiscal years 2016 through 2020 and \$0.7 million of these tariff liabilities related to activity during the three and six months ended March 31, 2021. The costs resulted from an internal review of the transaction value used to calculate tariffs on intercompany imports of samples shipped from our GENEWIZ business.

During the six months ended March 31, 2021, we reported operating income of \$61.4 million, compared to \$25.2 million for the corresponding period of the prior fiscal year. The increase of 143% was driven by higher gross profit of \$65.1 million, partially offset by an increase in operating expenses of \$28.9 million. Within operating expenses, selling, general, and administrative expenses increased \$26.6 million, and research and development expenses increased \$3.3 million. Restructuring expenses decreased \$1.0 million. The drivers of the changes in gross profit, research and development, and selling, general and administrative expenses for the periods presented are discussed in further detail below.

Operating income for our Brooks Semiconductor Solutions Group segment was \$33.0 million for the three months ended March 31, 2021, as compared to \$16.0 million for the corresponding period of the prior fiscal year. Operating income for the three months ended March 31, 2021 included \$0.3 million of charges for amortization related to completed technology, as compared to \$0.7 million of these charges incurred during the corresponding period of the prior fiscal year. Adjusted operating income for our Brooks Semiconductor Solutions Group segment, which excludes the charges mentioned above, was \$33.3 million for the three months ended March 31, 2021, as compared to \$16.7 million for the corresponding period of the prior fiscal year. Operating income for our Brooks Semiconductor Solutions Group segment was \$54.1 million for the six months ended March 31, 2021 as compared to \$30.3 million for the corresponding period of prior fiscal year. Operating income for the six months ended March 31, 2021 included \$0.7 million of charges for amortization related to completed technology, as compared to \$1.5 million of these charges incurred during the corresponding period of the prior fiscal year. Adjusted operating income for our Brooks Semiconductor Solutions Group segment, which excludes the charges mentioned above, was \$54.8 million for the six

months ended March 31, 2021, compared to \$31.7 million for the corresponding period of the prior fiscal year. Please refer to Note 15, "Segment Information" in the Notes to the unaudited consolidated financial statements included in Item 1 "Consolidated Financial Statements" of this Quarterly Report on Form 10-Q.

Operating income for our Brooks Life Sciences Products segment was \$10.9 million for the three months ended March 31, 2021, as compared to \$1.9 million for the corresponding period of the prior fiscal year. Operating income for our Brooks Life Sciences Products segment includes charges for amortization related to completed technology of \$0.3 million for both of the three months ended March 31, 2021 and 2020. Adjusted operating income for our Brooks Life Sciences Products segment, which excludes the charges mentioned above, was \$11.2 million for the three months ended March 31, 2021, as compared to \$2.1 million for the corresponding period of the prior fiscal year. During the six months ended March 31, 2021, operating income for our Brooks Life Sciences Products segment was \$18.6 million, as compared to \$1.9 million for the corresponding period of the prior fiscal year. Operating income for our Brooks Life Sciences Products segment includes charges for amortization related to completed technology of \$0.6 million and \$0.6 million, respectively, for the six months ended March 31, 2021 and 2020. Adjusted operating income for our Brooks Life Sciences Products segment, which excludes the charges mentioned above, was \$19.2 million for the six months ended March 31, 2021, as compared to \$2.5 million for the corresponding period of the prior fiscal year. Please refer to Note 15, "Segment Information" in the Notes to the unaudited consolidated financial statements included in Item 1 "Consolidated Financial Statements" of this Quarterly Report on Form 10-Q.

Operating income for our Brooks Life Sciences Services segment was \$6.2 million for the three months ended March 31, 2021, as compared to \$4.2 million for the corresponding period of the prior fiscal year. Operating income for our Brooks Life Sciences Services segment includes charges for amortization related to completed technology of \$1.7 million for both of the three months ended March 31, 2021 and 2020. Operating income for the three months ended March 31, 2021 includes \$5.5 million of cost related to prior periods accrued for tariff liabilities discussed above. Adjusted operating income for our Brooks Life Sciences Service segment, which excludes the amortization expense and \$5.5 million of tariff charges related to prior fiscal years was \$13.4 million for the three months ended March 31, 2021, as compared to \$6.0 million for the corresponding period of the prior fiscal year. During the six months ended March 31, 2021, operating income for our Brooks Life Sciences Services segment was \$18.7 million, as compared to \$8.2 million for the corresponding period of the prior fiscal year. Operating income for our Brooks Life Sciences Services segment includes charges for amortization related to completed technology of \$3.4 million for both the six months ended March 31, 2021 and 2020 and \$5.5 million of cost accrued for tariff liabilities in the six months ended March 31, 2021 discussed above. Adjusted operating income for our Brooks Life Sciences Service segment, which excludes the charges mentioned above, was \$27.7 million for the six months ended March 31, 2021, as compared to \$11.6 million for the corresponding period of the prior fiscal year. Please refer to Note 15, "Segment Information" in the Notes to the unaudited consolidated financial statements included in Item 1 "Consolidated Financial Statements" of this Quarterly Report on Form 10-Q.

We estimate that the impact of the COVID-19 pandemic on our two life sciences segments' operating income was a net increase of approximately \$9 million and \$15 million during the three and six months ended March 31, 2021, respectively. The increase was primarily driven by the revenue impacts to the life sciences segments noted above and lower expenses related to travel and trade shows.

Gross Margin

We reported gross margins of 44.4% for the three months ended March 31, 2021, as compared to 41.0% for the corresponding period of the prior fiscal year. Gross margin for the second quarter of fiscal year 2021 as compared to the corresponding period of the prior fiscal year increased in the Brooks Semiconductor Solutions Group segment by 5.3 percentage points and in the Brooks Life Sciences Products segment by 2.8 percentage points, and was partially offset by a decrease in the Brooks Life Sciences Services segment by 0.2 percentage points for the second quarter of fiscal year 2021, as compared to the corresponding period of the prior fiscal year. Cost of revenue for the three months ended March 31, 2021, included \$2.3 million of charges related to amortization of completed technology, as compared to \$2.7 million during the corresponding period of the prior fiscal year. Cost of revenue also included charges of \$6.1 million accrued for the tariff liabilities discussed in the "Operating Income" section above. Excluding amortization expense and

the \$5.5 million of tariff charges related to prior fiscal years, gross margin expanded 4.9 percentage points during the three months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year. During the six months ended March 31, 2021, we reported gross margins of 44.8%, as compared to 40.7% for the corresponding period of the prior fiscal year. Gross margin increased in the Brooks Semiconductor Solutions Group segment by 4.5 percentage points, in the Brooks Life Sciences Products segment by 3.1 percentage points, and in the Brooks Life Sciences Services segment by 3.9 percentage points for the first half of fiscal year 2021, as compared to the corresponding period of the prior fiscal year. Cost of revenue for the six months ended March 31, 2021 included \$4.7 million of charges related to amortization of completed technology, as compared to \$5.4 million during the corresponding period of the prior fiscal year, and charges of \$6.1 million accrued for the tariff liabilities discussed in the “Operating Income” section above. Excluding amortization and the \$5.5 million of tariff charges related to prior fiscal years, margins expanded 4.8 percentage points during the six months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year.

Our Brooks Semiconductor Solutions Group segment reported gross margins of 44.2% for the three months ended March 31, 2021, as compared to 38.9% for the corresponding period of the prior fiscal year. The increase of 5.3 percentage points was driven by volume leverage from our automation products and favorable revenue mix. Cost of revenue for the three months ended March 31, 2021 included \$0.3 million of charges for amortization related to completed technology, as compared to \$0.7 million of these charges incurred during the corresponding period of the prior fiscal year. Excluding the impact of the amortization of completed technology, gross margins increased 4.9 percentage points during the three months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year. During the six months ended March 31, 2021, our Brooks Semiconductor Solutions Group segment reported gross margins of 43.4%, as compared to 39.0% for the corresponding period of the prior fiscal year. The increase of 4.5 percentage points was driven by volume leverage from our automation products and favorable revenue mix. Cost of revenue for the six months ended March 31, 2021 included 0.7 million of charges for amortization related to completed technology, as compared to \$1.5 million of these charges incurred during the corresponding period of the prior fiscal year. Excluding the impact of the amortization of completed technology, gross margins increased 4.1 percentage points during the six months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year.

Our Brooks Life Sciences Products segment reported gross margins of 45.9% for the three months ended March 31, 2021, as compared to 43.2% for the corresponding period of the prior fiscal year. The increase of 2.8 percentage points was primarily driven by volume leverage related to increased sales in our consumables and instruments product lines. Cost of revenue for both the three months ended March 31, 2021 and 2020 included \$0.3 million of charges for amortization related to completed technology. Excluding the impact of the amortization of completed technology, margins expanded 2.4 percentage points during the three months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year. During the six months ended March 31, 2021, our Brooks Life Sciences Products segment reported gross margins of 45.6%, as compared to 42.4% for the corresponding period of the prior fiscal year. The increase of 3.1 percentage points was primarily driven by volume leverage related to increased sales in our consumables and instruments product lines. Cost of revenue for both the six months ended March 31, 2021 and 2020 included \$0.6 million of charges for amortization related to completed technology. Excluding the impact of the amortization of completed technology, margins expanded 2.7 percentage points during the six months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year.

Our Brooks Life Sciences Services segment reported gross margins of 43.8% for the three months ended March 31, 2021, as compared to 44.0% for the corresponding period of the prior fiscal year. The decrease of 0.2 percentage points was driven by higher tariff charges offset by volume leverage. Cost of revenue for both the three months ended March 31, 2021 and 2020 included \$1.7 million of charges for amortization related to completed technology and the tariff charges mentioned above. Excluding the impact of the amortization of completed technology and of the \$5.5 million of tariff charges related to prior fiscal years, margins expanded 6.5 percentage points during the three months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year. During the six months ended March 31, 2021, our Brooks Life Sciences Services segment reported gross margins of 47.1%, as compared to 43.2% for the corresponding period of the prior fiscal year. The improvement of 3.9 points was driven by volume leverage and revenue mix, partially offset by the impact of the \$5.5 million of cost accrued for the tariff liabilities as discussed above. The revenue mix benefit included 3.1 points from the reduction of outsourced genomic services under the alliance contract referenced above. Cost of revenue for the six months ended March 31, 2021 and 2020 included \$3.5 million and

\$3.4 million, respectively, of charges for amortization related to completed technology and the tariff charges discussed above. Excluding the impact of the amortization of completed technology, and the \$5.5 million of tariff charges related to prior periods, margins expanded 7.2 percentage points during the six months ended March 31, 2021, as compared to the corresponding period of the prior fiscal year.

Research and Development Expenses

Research and development expenses were \$16.9 million and \$33.0 million, respectively, during the three and six months ended March 31, 2021, as compared to \$15.3 million and \$29.7 million, respectively, during the corresponding periods of the prior fiscal year. The increase of \$1.6 million and \$3.3 million, respectively, during the three and six months ended March 31, 2021 as compared to the corresponding periods of fiscal year 2020, was driven by all three operating segments. The drivers of the increase are discussed in more detail below.

Research and development expenses in our Brooks Semiconductor Solutions Group segment were \$11.7 million and \$22.7 million, respectively, during the three and six months ended March 31, 2021, as compared to \$10.8 million and \$21.0 million, respectively, during the corresponding periods of the prior fiscal year. The increase of \$0.9 million and \$1.8 million, respectively, during the three and six months ended March 31, 2021 as compared to the corresponding periods of fiscal year 2020 was driven by higher payroll related costs and project spend to support new product development initiatives in our product sets.

Research and development expenses in our Brooks Life Sciences Products segment were \$2.4 million and \$4.7 million, respectively, during the three and six months ended March 31, 2021, as compared to \$2.3 million and \$4.5 million, respectively, during the corresponding periods of the prior fiscal year. The increase of \$0.1 million and \$0.2 million, respectively, during the three and six months ended March 31, 2021 as compared to the corresponding period of fiscal year 2020 was driven by higher program and outside services costs.

Research and development expenses in our Brooks Life Sciences Services segment were \$2.9 million and \$5.6 million, respectively, during the three and six months ended March 31, 2021, as compared to \$2.3 million and \$4.3 million, respectively, during the corresponding periods of the prior fiscal year. The increase of \$0.6 million and \$1.3 million, respectively, during the three and six months ended March 31, 2021 as compared to the corresponding period of fiscal year 2020 was primarily driven by higher payroll related costs and project costs, as well as the expense structure added from the RURO acquisition.

Selling, General and Administrative Expenses

Selling, general and administrative expenses were \$79.7 million for the three months ended March 31, 2021, as compared to \$59.8 million for the corresponding period of the prior fiscal year. The increase of \$19.9 million was driven by \$7.8 million from segment selling, general and administrative expenses, and \$12.1 million from unallocated corporate expenses. The segment selling, general and administrative expenses are discussed in further detail below. The increase in unallocated corporate expenses was primarily driven by mergers and acquisition related expenses, which were \$11.8 million for the three months ended March 31, 2021, compared to \$0.3 million for the three months ended March 31, 2020. Merger and acquisition expenses for the three months ended March 31, 2021 included \$11.2 million of costs related to the separation of the Company. See Note. 18 “Subsequent Events” for further information. Unallocated corporate expenses also include amortization related to customer relationship intangible assets, which was \$7.6 million for both of the three months ended March 31, 2021 and 2020.

Selling, general and administrative expenses were \$145.8 million for the six months ended March 31, 2021, as compared to \$119.2 million for the corresponding period of the prior fiscal year. The increase of \$26.6 million was driven by \$11.6 million from the segment selling, general and administrative expenses, and \$15 million from unallocated corporate expenses. The segment selling, general and administrative expenses are discussed in further detail below. The increase in unallocated corporate expenses was primarily driven by mergers and acquisition related expenses, which were \$14.8 million for the six months ended March 31, 2021, compared to \$0.5 million for the six months ended March 31, 2020. Merger and acquisition expenses for the six months ended March 31, 2021 included \$13.8 million of costs related to the separation of the Company. Unallocated corporate expenses also include amortization related to customer

relationship intangible assets, which were \$15 million and \$15.5 million for the six months ended March 31, 2021 and 2020, respectively.

Selling, general and administrative expenses at the segment level, which are discussed below, include corporate allocations from shared corporate function which include finance, information technology, human resources, legal, executive, governance, logistics and compliance, and variable compensation. During the three and six months ended March 31, 2021, corporate allocated expenses increased \$2.6 million and \$3.6 million respectively, compared to the corresponding prior periods, primarily due to higher variable compensation accruals and IT infrastructure costs.

Selling, general and administrative expenses in our Brooks Semiconductor Solutions Group segment were \$24.7 million and \$48.3 million, respectively, for the three and six months ended March 31, 2021, as compared to \$21.8 million and \$43.7 million, respectively, for the corresponding periods of the prior fiscal year. The increase of \$2.9 million and \$4.6 million, respectively, for the three and six months ended March 31, 2021 is primarily related to higher stock compensation expense and corporate allocated costs, which were driven by the factors discussed above, partially offset by lower travel and trade show expenses.

Selling, general and administrative expenses in our Brooks Life Sciences Products segment were \$10.8 million and \$21.3 million, respectively, for the three and six months ended March 31, 2021, compared to \$9.3 million and \$19.4 million, respectively, for the corresponding periods of the prior fiscal year. The increase of \$1.5 million and \$1.9 million, respectively, for the three and six months ended March 31, 2021 over the corresponding periods of the prior fiscal year was primarily driven by higher sales commission expenses, stock compensation expenses, and corporate allocated costs, which were driven by the factors discussed above. These items were partially offset by lower expenses related to travel and trade shows.

Selling, general and administrative expenses in our Brooks Life Sciences Services segment were \$24.8 million and \$46.3 million, respectively, for the three and six months ended March 31, 2021, compared to \$21.8 million and \$42.1 million, respectively, for the corresponding periods of the prior fiscal year. The increase of \$3.0 million and \$4.2 million, respectively, for the three and six months ended March 31, 2021 over the corresponding periods of the prior fiscal year was primarily driven by stock compensation expense and infrastructure costs related to acquisitions, partially offset by lower travel expenses and bad debt expense.

Non-Operating Income (Expenses)

Interest income - During the three and six months ended March 31, 2021, we recorded interest income of less than \$0.1 million and \$0.1 million, respectively, as compared to \$0.1 million and \$0.8 million, respectively, during the corresponding periods of the prior fiscal year.

Interest expense - During the three and six months ended March 31, 2021, we recorded interest expense of \$0.5 million and \$1.0 million, respectively, as compared to \$0.7 million and \$1.5 million, respectively, during corresponding periods of the prior fiscal year.

Other income (expenses), net - During the three and six months ended March 31, 2021, we recorded other income, net of \$0.1 million and \$1.5 million, respectively, compared to other expense, net of \$1.4 million and \$1.8 million, respectively, in the corresponding periods of the prior year. The primary driver of the increase related to foreign currency exchange loss of \$0.4 million included in the three months ended March 31, 2021, as compared to \$2.0 million of foreign currency exchange losses recorded in the same period of the prior year. The primary driver of the increase related to foreign currency exchange gains of \$0.4 million included in the six months ended March 31, 2021, as compared to \$2.7 million of foreign currency exchange losses recorded in the same period of the prior year.

Income Tax Provision

We recorded an income tax provision of \$6.3 million and \$11.1 million, respectively, during the three and six months ended March 31, 2021. The tax provision for the three months ended March 31, 2021 was primarily driven by the provision on earnings from operations during the period. The provision for the six months ended March 31, 2021 was

primarily driven by the provision on earnings from operations during the period and was partially offset by a \$2.7 million discrete stock compensation windfall benefit for tax deductions that exceeded the associated book compensation expense.

We recorded an income tax provision of \$3.4 million and \$0.4 million, respectively, during the three and six months ended March 31, 2020. The tax provision for the three months ended March 31, 2020 was primarily driven by the provision on earnings from operations during the period. The tax provision for the six months ended March 31, 2020 was primarily driven by the provision on earnings from operations during the period. The tax provision was offset by a \$6.1 million discrete stock compensation windfall benefit for tax deductions that exceeded the associated compensation expense in the period. During the six months we also recorded a discrete benefit of \$0.5 million from a reduction of deferred tax liabilities related to the extension of a tax rate incentive in China.

Discontinued Operations

On July 1, 2019, we completed the sale of the semiconductor cryogenics business which we include as a discontinued operation. During the first quarter of fiscal year 2021, the final net working capital was determined which resulted in our payment of an additional \$1.8 million to Edwards in the three months ended March 31, 2021. We generated a net loss from discontinued operations of \$0.2 million and \$1.2 million, respectively, for the three and six months ended March 31, 2021, related to our semiconductor cryogenics business. We generated net loss from discontinued operations of \$0.1 million and \$0.2 million, respectively, for the three and six months ended March 31, 2020, related to our semiconductor cryogenics business. The net loss from discontinued operations only includes direct operating expenses incurred that (1) are clearly identifiable as costs being disposed of upon completion of the sale and (2) will not be continued by us on an ongoing basis. Indirect expenses which supported the semiconductor cryogenics business, and which will remain as part of our continuing operations, are not reflected in net loss from discontinued operations.

LIQUIDITY AND CAPITAL RESOURCES

Our semiconductor solutions business represents slightly more than half of our revenue and is dependent on the demand for semiconductor capital equipment which historically has experienced periodic downturns. We believe that we have adequate resources to satisfy our working capital, financing activities, debt service and capital expenditure requirements for the next twelve months. The cyclical nature of our served markets and uncertainty in the current global economic environment, including the uncertainty related to the COVID-19 pandemic, make it difficult for us to predict longer-term liquidity requirements with sufficient certainty. We may be unable to obtain any required additional financing on terms favorable to us, if at all. If adequate funds are not available to us on acceptable terms or otherwise, we may be unable to successfully develop or enhance products and services, respond to competitive pressure or take advantage of acquisition opportunities, any of which could have a material adverse effect on our business, financial condition and operating results.

The discussion of our cash flows and liquidity that follows does not include the impact of the disposition of the semiconductor cryogenics business and is stated on a total company consolidated basis.

Overview of Cash Flows and Liquidity

Our cash and cash equivalents, restricted cash and marketable securities as of March 31, 2021 and September 30, 2020 consist of the following (in thousands):

	<u>March 31, 2021</u>	<u>September 30, 2020</u>
Cash and cash equivalents	\$ 320,105	\$ 295,649
Restricted cash	10,645	6,877
Short-term marketable securities	101	67
Long-term marketable securities	3,485	3,101
	<u>\$ 334,336</u>	<u>\$ 305,694</u>

Our cash is held in numerous locations throughout the world. As of March 31, 2021, we had cash and cash equivalents of \$320.1 million, of which \$187.5 million was held outside of the United States. If these funds are needed for our U.S. operations, we would need to repatriate these funds. Although under current tax laws any repatriation of these fund to the United States would likely not result in further U.S. federal income tax, it is uncertain whether this will be the case in the future based on changes to the tax laws that may be enacted. Our intent is to reinvest these funds outside of the United States and our current operating plans do not demonstrate a need to repatriate these funds for our U.S. operations. As of March 31, 2021, and September 30, 2020, we had marketable securities of \$3.6 million and \$3.2 million, respectively. Our marketable securities are generally readily convertible to cash without an adverse impact.

Six Months Ended March 31, 2021 Compared to Six Months Ended March 31, 2020

Overview

Cash Flows and Liquidity - Cash, cash equivalents, restricted cash and marketable securities were \$334.3 million at March 31, 2021, as compared to \$305.7 million at September 30, 2020. The increase of \$28.6 million from September 30, 2020 was comprised of cash inflows of \$77.9 million from operating activities; partially offset by outflows from investing and financing activities which include \$25.5 million for capital expenditures, \$15.1 million for an acquisition, and \$14.9 million for dividends. Cash inflows from operating activities was comprised of \$86.5 million of earnings, including \$49.8 million of net income and \$36.7 million of adjustments to net income for non-cash items, partially offset by \$8.5 million of cash used for the changes in operating assets and liabilities.

Operating Activities

Cash flows from operating activities can fluctuate significantly from period to period as earnings, working capital needs and the timing of payments for income taxes, restructuring activities and other operating charges impact reported cash flows.

Cash provided by operating activities was \$77.9 million during the six months ended March 31, 2021 and was comprised primarily of \$86.5 million of earnings, including \$49.8 million of net income and \$36.7 million of adjustments to net income for non-cash items. Partially offsetting these items was the net use of cash of \$8.5 million for the increase in net operating assets and liabilities. The net increase in operating assets and liabilities consisted primarily of increases in accounts receivable and inventory, partially offset by increases to accrued expenses and other liabilities, accrued compensation and accounts payable. Cash used in operating activities was \$40.1 million during the six months ended March 31, 2020, comprised primarily of \$91.5 million of cash taxes paid for the gain on the sale of the semiconductor cryogenics business and a use of cash of \$3.5 million related to increases in net operating assets and liabilities partially offset by \$54.9 million of earnings, comprised of \$22.2 million of net income, and \$32.8 million adjustments to net income for non-cash items. The net increase in operating assets and liabilities consisted primarily of an increase in inventory partially offset by increases in accrued expenses and other liabilities, accrued compensation and accounts payable.

Investing Activities

Cash flows used in investing activities consist primarily of cash used for acquisitions, capital expenditures and purchases of marketable securities as well as cash proceeds generated from sales and maturities of marketable securities. Cash used in investing activities was \$42.4 million during the six months ended March 31, 2021. Cash used in investing activities during the six months ended March 31, 2021 included cash outflows for capital expenditures of \$25.5 million and \$15.1 million for an acquisition. Cash used in investing activities was \$4.0 million during the six months ended March 31, 2020. Cash used in investing activities during the six months ended March 31, 2020 included cash outflows for capital expenditures of \$21.2 million, \$15.7 million for the acquisition of RURO, and \$10.8 million for the purchases of marketable securities. These outflows were partially offset by cash inflows from the maturities and sales of marketable securities of \$44.7 million.

Financing Activities

Cash outflows for financing activities were \$13.3 million during the six months ended March 31, 2021. Cash outflows for financing activities during the six months ended March 31, 2021 included cash outflows for cash dividend payments of \$14.9 million. Cash used in financing activities was \$13.5 million during the six months ended March 31, 2020. Cash used in financing activities during the six months ended March 31, 2020 included cash outflows for cash dividend payments of \$14.7 million.

China Facility

In April 2019, we committed to construct a facility in Suzhou China, to consolidate the Suzhou operations of the GENEWIZ business and provide infrastructure to support future growth. The facility is being constructed in two phases. We have incurred \$17.2 million of capital expenditures to date related to the construction of the facility, which includes \$2.3 million and \$7.8 million, respectively, for the three and six months ended March 31, 2021. We expect to incur an additional \$43 million to \$47 million of capital expenditures related to this facility over the next four years.

Capital Resources

Term Loans

On October 4, 2017, we entered into a \$200.0 million term loan with Morgan Stanley Senior Funding, Inc., JPMorgan Chase Bank, N.A. and Wells Fargo Securities, LLC pursuant to the terms of a credit agreement with the lenders. The term loan was issued at \$197.6 million, or 98.8% of its par value, resulting in a discount of \$2.4 million, or 1.2%, which represented loan origination fees paid at the closing. The loan principal amount may be increased by an aggregate amount equal to \$75.0 million plus any voluntary repayments of the term loan plus any additional amount such that our secured leverage ratio is less than 3.00 to 1.00.

The term loan matures and becomes fully payable on October 4, 2024. Installment principal payments equal to 0.25% of the initial principal amount of the term loan are payable on the last day of each quarter, with any remaining principal amount becoming due and payable on the maturity date. Subject to certain conditions stated in the credit agreement, we may redeem the term loan at any time at our option without a significant premium or penalty, except for a repricing transaction, as defined in the credit agreement. We are required to redeem the term loan at the principal amount then outstanding upon the occurrence of certain events, as set forth in the credit agreement.

On July 1, 2019, in connection with the completion of the sale of our semiconductor cryogenics business, we used \$147.0 million of the cash proceeds from the transaction to extinguish a portion of the outstanding balance at July 1, 2019 of the term loan.

The credit agreement, as amended, contains certain customary representations and warranties, covenants and events of default. As of March 31, 2021, we were in compliance with all covenants and conditions under the credit agreement, as amended.

In connection with our acquisition of GENEWIZ Group in November 2018, we assumed three five-year term loans. At March 31, 2021, we had an aggregate outstanding principal balance of \$0.4 million under the three five-year term loans.

At March 31, 2021, the aggregate outstanding principal balance of all of the outstanding term loans was \$50.1 million, excluding unamortized deferred financing costs of \$0.3 million. Borrowings under the term loans bear variable interest rates. As a result, we may experience exposure to interest rate risk due to the potential volatility associated with the variable interest rates on the term loans. If rates increase, we may be subject to higher costs of servicing the loans which could reduce our profitability and cash flows. During the six months ended March 31, 2021, the weighted average stated interest rate on the term loans was 2.8%. During the six months ended March 31, 2021, we incurred aggregate interest expense of \$0.8 million on the term loans, including \$0.1 million of deferred financing costs amortization. Our debt service requirements are expected to be funded through our existing sources of liquidity and operating cash flows.

Line of Credit

Facility

We maintain a revolving line of credit under a credit agreement with Wells Fargo Bank, N.A. and JPMorgan Chase Bank, N.A. that provides for a revolving credit facility of up to \$75.0 million, subject to borrowing base availability, as defined in the credit agreement. The line of credit matures on October 4, 2022. The proceeds from the line of credit are available for permitted acquisitions and general corporate purposes.

As of March 31, 2021, we had approximately \$54.2 million available for borrowing under the line of credit. There were no amounts outstanding pursuant to the line of credit as of March 31, 2021. The amount of funds available for borrowing under the credit agreement may fluctuate each period based on our borrowing base availability. The credit agreement contains certain customary representations and warranties, a financial covenant, affirmative and negative covenants, as well as events of default. We were in compliance with the credit agreement as of March 31, 2021. Although we believe we will be able to generate sufficient cash in the United States and foreign jurisdictions to fund future operating costs, we secured the revolving line of credit as an additional assurance for maintaining liquidity in the United States during potentially severe downturns of the cyclical semiconductor market, and for strategic investments or acquisitions.

Dividends

On April 27, 2021, our Board of Directors declared a cash dividend of \$0.10 per share payable on June 25, 2021 to common stockholders of record as of June 4, 2021. Dividends are declared at the discretion of our Board of Directors and depend on actual cash flow from operations, our financial condition, debt service and capital requirements, and any other factors our Board of Directors may consider relevant. We intend to pay quarterly cash dividends in the future; however, the amount and timing of these dividends may be impacted by the cyclical nature of certain markets we serve or the impact of the COVID-19 pandemic. We may reduce, delay or cancel a quarterly cash dividend based on the severity of a cyclical downturn or if the effects of the COVID-19 pandemic are prolonged.

Share Repurchase Program

On September 29, 2015, our Board of Directors approved a share repurchase program for up to \$50.0 million worth of our common stock. The timing and amount of any shares repurchased will be based on market and business conditions, legal requirements and other factors and repurchases may be commenced or suspended at any time at our discretion. There were no shares repurchased under this program during the six months ended March 31, 2021 and there have been no shares repurchased under this program since its inception.

Contractual Obligations and Requirements

At March 31, 2021, we had non-cancellable commitments of \$266.4 million, including primarily purchase orders for inventory of \$230.1 million, information technology related commitments of \$19.8 million, and China facility commitments of \$15.8 million.

At March 31, 2021, we had approximately \$1.3 million of letters of credit outstanding related primarily to customer advances and other performance obligations. These arrangements guarantee the refund of advance payments received from our customers in the event that the product is not delivered, or warranty obligations are not fulfilled in accordance with the contract terms. These obligations could be called by the beneficiaries at any time before the expiration date of the particular letter of credit if we fail to meet certain contractual requirements. None of these obligations were called during the six months ended March 31, 2021, and we currently do not anticipate any of these obligations to be called in the near future.

Off-Balance Sheet Arrangements

As of March 31, 2021, we did not have any off-balance sheet arrangements, as defined in Item 303(a)(4)(ii) of SEC Regulation S-K.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

We are exposed to a variety of market risks, including fluctuations in foreign currency exchange rates and changes in interest rates affecting interest payments on our term loan and investment return on our cash and cash equivalents, restricted cash and short-term and long-term investments.

Interest Rate Exposure

Our term loans bear variable interest rates which subject us to interest rate risk. Our primary interest rate risk exposure results from changes in the short-term LIBOR rate, the federal funds effective rate and the prime rate. During the six months ended March 31, 2021, the weighted average stated interest rate on the term loans was 2.8%. At March 31, 2021, the outstanding term loans principal balance was \$50.1 million, net of unamortized deferred financing costs of \$0.3 million. During the six months ended March 31, 2021, we incurred cash interest expense of \$0.7 million on the term loans. A hypothetical 100 basis point change in interest rates would result in a \$0.3 million change in interest expense incurred during the six months ended March 31, 2021.

Our cash and cash equivalents and restricted cash consist principally of money market securities that are short-term in nature. At March 31, 2021, our total short-term and long-term investments were \$3.6 million, consisting mostly of highly rated corporate debt securities and other debt securities. At March 31, 2021, we had no securities in an unrealized loss position. A hypothetical 100 basis point change in interest rates would result in an insignificant increase in interest income earned during the six months ended March 31, 2021.

Currency Rate Exposure

We have transactions and balances denominated in currencies other than the U.S. dollar. Most of these transactions or balances are denominated in Euros, British Pounds and a variety of Asian currencies. Sales in currencies other than the U.S. dollar were approximately 40% and 39% of our total sales, respectively, during the six months ended March 31, 2021 and 2020. These sales were made primarily by our foreign subsidiaries, which have cost structures that substantially align with the currency of sale.

In the normal course of our business, we have liquid assets denominated in non-functional currencies which include cash, short-term advances between our legal entities and accounts receivable which are subject to foreign currency exposure. Such balances were approximately \$92.8 million and \$142.9 million, respectively, at March 31, 2021 and September 30, 2020, and related to the Euro, British Pound and a variety of Asian currencies. We mitigate the impact of potential currency translation losses on these short-term intercompany advances by the timely settlement of each

transaction, generally within 30 days. We also utilize forward contracts to mitigate our exposures to currency movement. We incurred foreign currency gains of \$0.4 million and losses of \$2.7 million during the six months ended March 31, 2021 and 2020, respectively, which related to the currency fluctuation on these balances between the time the transaction occurred and the ultimate settlement of the transaction. A hypothetical 10% change in foreign exchange rates at March 31, 2021 and 2020 would result in an approximate change of \$0.6 million and \$3.8 million, respectively, in our net income during the six months ended March 31, 2021 and 2020.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures. As of the end of the period covered by this report, and pursuant to Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, the Company's management, including our chief executive officer and chief financial officer, has concluded that our disclosure controls and procedures are effective.

Change in Internal Controls. There were no changes in our internal control over financial reporting that occurred during our most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. *Legal Proceedings*

We are subject to various legal proceedings, both asserted and unasserted, that arise in the ordinary course of business. We cannot predict the ultimate outcome of such legal proceedings or in certain instances provide reasonable ranges of potential losses. However, as of the date of this Quarterly Report on Form 10-Q, we believe that none of these claims will have a material adverse effect on our consolidated financial condition or results of operations. In the event of unexpected subsequent developments and given the inherent unpredictability of these legal proceedings, there can be no assurance that our assessment of any claim will reflect the ultimate outcome and an adverse outcome in certain matters could, from time to time, have a material adverse effect on our consolidated financial condition or results of operations in particular quarterly or annual periods.

Item 1A. *Risk Factors*

You should carefully review and consider the information regarding certain factors that could materially affect our business, consolidated financial condition or results of operations set forth under Item 1A. Risk Factors in our 2020 Annual Report on Form 10-K. There have been no material changes from the risk factors disclosed in our 2020 Annual Report on Form 10-K. We may disclose changes to risk factors or additional factors from time to time in our future filings with the SEC.

Item 6. Exhibits

The following exhibits are included herein:

Exhibit No.	Description
10.1	2020 Equity Incentive Plan (incorporated herein by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K, filed on February 1, 2021).
31.01	Certification of the Company's Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.02	Certification of the Company's Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32	Certification of the Company's Chief Executive Officer and Chief Financial Officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
101	The following material from the Company's Quarterly Report on Form 10-Q, for the quarter ended March 31, 2021, formatted in iXBRL (Inline eXtensible Business Reporting Language): (i) the unaudited Consolidated Balance Sheets; (ii) the unaudited Consolidated Statements of Operations; (iii) the unaudited Consolidated Statements of Comprehensive Income; (iv) the unaudited Consolidated Statements of Cash Flows; (v) the unaudited Consolidated Statements of Changes in Stockholders Equity; and (vi) the Notes to the unaudited Consolidated Financial Statements. The instance document does not appear in the Interactive Data File because XBRL tags are embedded in the iXBRL document.
104	Cover Page Interactive Data File (formatted as iXBRL and contained in Exhibit 101).

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.

BROOKS AUTOMATION, INC.

Date: May 10, 2021

/s/ Lindon G. Robertson

Lindon G. Robertson
Executive Vice President and Chief Financial Officer
(Principal Financial Officer)

Date: May 10, 2021

/s/ David Pietrantoni

David Pietrantoni
Vice President-Finance and Corporate Controller
(Principal Accounting Officer)

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Stephen S. Schwartz, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Brooks Automation, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer 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/ STEPHEN S. SCHWARTZ

Stephen S. Schwartz
Chief Executive Officer

Date: May 10, 2021

CERTIFICATION PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Lindon G. Robertson, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Brooks Automation, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer 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/ LINDON G. ROBERTSON

Lindon G. Robertson
Executive Vice President and Chief Financial Officer

Date: May 10, 2021

CERTIFICATION**Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (Subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code)**

Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of Section 1350, Chapter 63 of Title 18, United States Code), the undersigned officer of Brooks Automation, Inc., a Delaware corporation (the "Company"), does hereby certify, to the best of such officer's knowledge and belief, that:

(1) The Quarterly Report on Form 10-Q for the quarter ended March 31, 2021 of the Company fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and

(2) The information contained in this Form 10-Q fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: May 10, 2021

/s/ STEPHEN S. SCHWARTZ

Stephen S. Schwartz
Director and Chief Executive Officer
(Principal Executive Officer)

Dated: May 10, 2021

/s/ LINDON G. ROBERTSON

Lindon G. Robertson
Executive Vice President and
Chief Financial Officer
(Principal Financial Officer)

A signed original of this written statement required by Section 906 has been provided to Brooks Automation, Inc. and will be retained by Brooks Automation, Inc. and furnished to the Securities and Exchange Commission or its staff upon request.
