MOOG INC. Form 10-Q July 27, 2018 Table of Contents

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

#### FORM 10-Q

(Mark One) ý QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the quarterly period ended June 30, 2018

OR

" TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the transition period from \_\_\_\_\_\_ to \_\_\_\_\_

Commission File Number: 1-05129

INC.

(Exact name of registrant as specified in its charter)

New York State	16-0757636
(State or other jurisdiction of incorporation or organization)	(I.R.S. Employer Identification No.)
East Aurora, New York	14052-0018
(Address of principal executive offices)	(Zip Code)
(716) 652-2000	
(Telephone number including area code)	

Former name, former address and former fiscal year, if changed since last report.

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  $\circ$  No "

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

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

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Large accelerated filer ý Accelerated filer <sup>"</sup> Non-accelerated filer <sup>"</sup> (Do not check if smaller reporting company) Smaller reporting company <sup>"</sup> Emerging growth company <sup>"</sup>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for the 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 ý

The number of shares outstanding of each class of common stock as of July 24, 2018 was: Class A common stock, \$1.00 par value, 32,466,689 shares Class B common stock, \$1.00 par value, 3,322,519 shares Moog Inc. QUARTERLY REPORT ON FORM 10-Q TABLE OF CONTENTS

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Three Months Ended Nine Months Ended

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PART I FINANCIAL INFORMATION Item 1. Financial Statements Moog Inc. Consolidated Condensed Statements of Earnings (Unaudited)

		Linded	i tine infontin	15 Lilded
(dollars in thousands, except share and per share data)	June 30,	July 1,	June 30,	July 1,
(donars in thousands, except share and per share data)	2018	2017	2018	2017
Net sales	\$692,018	\$626,183	\$2,008,602	\$1,848,256
Cost of sales	492,234	443,769	1,424,731	1,308,256
Inventory write-down - restructuring	2,398		9,727	
Gross profit	197,386	182,414	574,144	540,000
Research and development	31,040	36,314	97,545	107,828
Selling, general and administrative	103,053	89,144	299,002	261,271
Interest	8,850	8,654	26,585	25,789
Restructuring	(1,549)		22,509	
Other	1,037	29	45	12,148
Earnings before income taxes	54,955	48,273	128,458	132,964
Income taxes	14,205	8,185	72,444	31,156
Net earnings attributable to Moog and noncontrolling interest	40,750	40,088	56,014	101,808
Net earnings (loss) attributable to noncontrolling interest	67		67	(870)
Net earnings attributable to Moog	\$40,683	\$40,088	\$55,947	\$102,678
Net earnings per share attributable to Moog				
Basic	\$1.14	\$1.12	\$1.56	\$2.86
Diluted	\$1.13	\$1.11 \$1.11	\$1.55	\$2.83
Direct	ψ1.15	ψ 1,11	ψ1.55	φ2.05
Dividends declared per share	\$—	\$—	\$0.25	\$—
Average common shares outstanding				
Basic	35,762,918	35,847,842	35,768,471	35,868,315
Diluted			36,174,759	
See accompanying Notes to Consolidated Condensed Financia	l Statements			

# Moog Inc.

Consolidated Condensed Statements of Comprehensive Income (Loss) (Unaudited)

	Three Mo Ended	onths	Nine Mo	nths Ended
(dollars in thousands)	June 30,	July 1,	June 30,	July 1,
(donais in diousands)	2018	2017	2018	2017
Net earnings attributable to Moog and noncontrolling interest	\$40,750	\$40,088	\$56,014	\$101,808
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustment	(40,788)	32,805	(10,127)	3,991
Retirement liability adjustment	7,080	3,566	16,018	17,609
Change in accumulated income (loss) on derivatives	(747)	1,013	(92)	2,833
Other comprehensive income (loss), net of tax	(34,455)	37,384	5,799	24,433
Tax Cuts and Jobs Act, reclassification from AOCIL to retained earnings	—		(47,077)	
Comprehensive income (loss)	6,295	77,472	14,736	126,241
Comprehensive income (loss) attributable to noncontrolling interest	41		41	(870)
Comprehensive income (loss) attributable to Moog	\$6,254	\$77,472	\$14,695	\$127,111
See accompanying Notes to Consolidated Condensed Financial Statements	•			

Moog Inc. Consolidated Condensed Balance Sheets		
(Unaudited)	June 30,	September 30,
(dollars in thousands)	2018	2017
ASSETS		
Current assets		
Cash and cash equivalents	\$157,269	\$368,073
Receivables	757,455	727,740
Inventories	514,578	489,127
Prepaid expenses and other current assets	50,215	41,499
Total current assets	1,479,517	1,626,439
Property, plant and equipment, net of accumulated depreciation of \$818,644 and	546,598	522,991
\$771,160, respectively		
Goodwill	790,826	774,268
Intangible assets, net	112,838	108,818
Deferred income taxes	13,214	26,558
Other assets	35,860	31,518
Total assets	\$2,978,853	\$ 3,090,592
LIABILITIES AND SHAREHOLDERS' EQUITY Current liabilities		
Short-term borrowings	\$1,416	\$ 89
Current installments of long-term debt	393	295
Accounts payable	190,092	170,878
Accrued compensation	144,712	148,406
Customer advances	163,318	159,274
Contract loss reserves	41,143	43,214
Other accrued liabilities	113,956	107,278
Total current liabilities	655,030	629,434
Long-term debt, excluding current installments	858,425	956,653
Long-term pension and retirement obligations	118,862	271,272
Deferred income taxes	47,722	13,320
Other long-term liabilities	36,021	5,609
Total liabilities	1,716,060	1,876,288
Commitments and contingencies (Note 18)	—	
Shareholders' equity		
Common stock - Class A	43,780	43,704
Common stock - Class B	7,500	7,576
Additional paid-in capital	486,510	492,246
Retained earnings	1,941,902	1,847,819
Treasury shares		) (739,157 )
Stock Employee Compensation Trust		) (89,919 )
Supplemental Retirement Plan Trust		) (12,474 )
Accumulated other comprehensive loss		) (335,491 )
Total Moog shareholders' equity	1,262,267	1,214,304
Noncontrolling interest	526	<u> </u>
Total shareholders' equity	1,262,793	1,214,304 \$ 3,090,592
Total liabilities and shareholders' equity	\$2,978,853	ф <i>Э</i> ,090, <i>392</i>

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See accompanying Notes to Consolidated Condensed Financial Statements.

Moog Inc. Consolidated Condensed Statements of Shareholders' Equity (Unaudited)

(Unaudited)			
(dollars in thousands, except share data)	Amount	Number of S Class A Common	Class B Common
		Stock	Stock
COMMON STOCK	¢ 51 000	10 704 000	
Beginning of period	\$51,280	43,704,286	7,575,427
Conversion of Class B to Class A		75,951	(75,951)
End of period	51,280	43,780,237	7,499,476
ADDITIONAL PAID-IN CAPITAL	402.246		
Beginning of period	492,246	`	
Issuance of treasury shares	(2,874	)	
Equity-based compensation expense	4,394	`	
Adjustment to market - SECT, SERP and other	(7,256	)	
End of period RETAINED EARNINGS	486,510		
	1,847,819		
Beginning of period Net earnings attributable to Moog	1,847,819 55,947		
Dividends	(8,941	)	
Tax Cuts and Jobs Act, reclassification from AOCIL to retained earnings	47,077	)	
End of period	1,941,902		
TREASURY SHARES AT COST	1,741,702		
Beginning of period	(739,157	) (10,933,003)	(3333927)
Class A and B shares issued related to equity compensation	5,325	83,193	28,460
Class A and B shares purchased	(5,210	) (38,590	
End of period	(739,042	) (10,888,400)	
STOCK EMPLOYEE COMPENSATION TRUST (SECT)	(13),012	) (10,000,100)	(0,027,000)
Beginning of period	(89,919	) (425,148	(654,753)
Issuance of shares	1,941		21,871
Purchase of shares	(8,444	) —	(97,855)
Adjustment to market	6,518	<i></i>	
End of period	(89,904	) (425,148	(730,737)
SUPPLEMENTAL RETIREMENT PLAN (SERP) TRUST			
Beginning of period	(12,474	)	(150,000)
Adjustment to market	738		
End of period	(11,736	)	(150,000)
ACCUMULATED OTHER COMPREHENSIVE LOSS			
Beginning of period	(335,491	)	
Other comprehensive income (loss)	5,825		
Tax Cuts and Jobs Act, reclassification from AOCIL to retained earnings	(47,077	)	
End of period	(376,743	)	
TOTAL MOOG SHAREHOLDERS' EQUITY	1,262,267	32,466,689	3,290,803
NONCONTROLLING INTEREST			
Beginning of period			
Acquisition of noncontrolling interest	485		
Net earnings attributable to noncontrolling interest	67		

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Foreign currency translation adjustment End of period TOTAL SHAREHOLDERS' EQUITY (26) 526 \$1,262,793

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# Moog Inc.

- Consolidated Condensed Statements of Cash Flows (Unaudited)
- Nine Months Ended June 30, July 1, (dollars in thousands) 2018 2017 CASH FLOWS FROM OPERATING ACTIVITIES Net earnings attributable to Moog and noncontrolling interest \$56,014 \$101,808 Adjustments to reconcile net earnings to net cash provided (used) by operating activities: Depreciation 54,693 53,027 Amortization 13,628 14,078 Deferred income taxes 35,549 2,968 Equity-based compensation expense 4,394 4,151 Impairment of long-lived assets and inventory write-down associated with restructuring 24.246 \_\_\_\_ Other 4,743 15,493 Changes in assets and liabilities providing (using) cash: Receivables (27,597) 176 Inventories (27,840) 3,786 Accounts payable 12,778 11,312 Customer advances (165 ) (3,097 ) Accrued expenses 11,709 (180)) Accrued income taxes ) (2,767 (1,817)) Net pension and post retirement liabilities (130,135)(25,982)Other assets and liabilities 16,150 (5,449)) Net cash provided by operating activities 46,350 169,324 CASH FLOWS FROM INVESTING ACTIVITIES Acquisitions of businesses, net of cash acquired (47,947) (40,545) Purchase of property, plant and equipment (70,759) (45,349) Other investing transactions (3.609 ) 3,031 (122,315) (82,863) Net cash (used) by investing activities CASH FLOWS FROM FINANCING ACTIVITIES Net short-term borrowings (repayments) 1.357 (1,280)) Proceeds from revolving lines of credit 301,500 185,045 Payments on revolving lines of credit (411,610) (235,045) Proceeds from long-term debt 11,216 Payments on long-term debt (21,849) (133 ) Payment of dividends (8,941 ) — 2,451 Proceeds from sale of treasury stock 2,135 Purchase of outstanding shares for treasury (5,210)) (5,714 ) Proceeds from sale of stock held by SECT 1,941 867 Purchase of stock held by SECT (8,444)) (12,162) Other financing transactions 484 (1,656 ) Net cash (used) by financing activities (137,105) (67,943) Effect of exchange rate changes on cash 2,266 895 Increase (decrease) in cash and cash equivalents (210,804) 19,413 Cash and cash equivalents at beginning of period 368,073 325,128 Cash and cash equivalents at end of period \$157,269 \$344,541

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See accompanying Notes to Consolidated Condensed Financial Statements.

Moog Inc. Notes to Consolidated Condensed Financial Statements Nine Months Ended June 30, 2018 (Unaudited) (dollars in thousands, except per share data) Note 1 - Basis of Presentation The accompanying unaudited consolidated condensed financial statements have been prepared by management in accordance with U.S. generally accepted accounting principles for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X. In the opinion of management, all adjustments consisting of normal recurring adjustments considered necessary for the fair presentation of results for the interim period have been included. The results of operations for the three and nine months ended June 30, 2018 are not necessarily indicative of the results expected for the full year. The accompanying unaudited consolidated condensed financial statements should be read in conjunction with the financial statements and notes thereto included in our Form 10-K for the fiscal year ended September 30, 2017. All references to years in these financial statements are to fiscal years.

Certain prior year amounts have been reclassified to conform to current year's presentation. During 2018, we made a change to our segment reporting structure and merged our former Components segment into Space and Defense Controls and Industrial Systems. The Goodwill and Segment footnotes have been restated to reflect these changes.

Recent Accounting Pronouncements Adopted

Standard

Description

ASU no. 2018-02 Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income The standard amends existing guidance and allows a reclassification from accumulated other comprehensive income (loss) to retained earnings for stranded deferred tax effects resulting from the Tax Cuts and Jobs Act. The standard requires certain disclosures about stranded deferred tax effects. The provisions of the standard are effective for fiscal years beginning after December 15, 2018, and interim periods within those fiscal years. Early adoption is permitted.

**Financial Statement** Effect or Other Significant Matters We adopted this standard recording the related stranded deferred tax effects in the period of adoption, resulting in \$47,077 being reclassified from accumulated other comprehensive income (loss) to retained earnings as of March 31, 2018. Date early adopted: O2 2018

Recent Accounting Pronouncements Not Yet Adopted

Standard	Description	Financial Statement Effect or Other Significant Matters
ASU no. 2014-09 Revenue from Contracts with Customers (and All Related ASUs)	The standard requires revenue recognition to depict the transfer of goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard also requires additional disclosures about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts. The provisions of the standard, as well as all subsequently issued clarifications to the standard, are effective for fiscal years beginning after December 15, 2017 and interim periods within those fiscal years. The standard can be adopted using either a full retrospective or modified retrospective approach.	We plan to adopt the standard using the modified retrospective method, under which prior years' results are not restated, but supplemental information will be provided in our disclosures that will present fiscal 2019 results before adoption of the standard. In addition, a cumulative adjustment will be necessary to Shareholder's equity at the beginning of fiscal 2019. We have identified, and are in the process of implementing, changes to our financial statements and related disclosures, internal controls, financial policies and information technology systems. We anticipate recognizing more revenue over time primarily related to repair and overhaul arrangements and contracts with the United States government. We have not yet fully quantified the impact on our financial statements and related disclosures. Planned date of adoption:
ASU no. 2016-01 Recognition and Measurement of Financial Assets and Financial Liabilities	The standard requires most equity investments to be measured at fair value, with subsequent changes in fair value recognized in net income. The amendment also impacts the measurement of financial liabilities under the fair value option as well as certain presentation and disclosure requirements for financial instruments. The provisions of the standard are effective for fiscal years beginning after December 15, 2017 and interim periods within those fiscal years. Early adoption is permitted for some, but not all, provisions. The amendment requires certain provisions to be applied prospectively and others to be applied by means of a cumulative-effect adjustment.	financial statements and related disclosures.
ASU no. 2016-02 Leases (and All Related ASUs)	The standard requires most lease arrangements to be recognized in the balance sheet as lease assets and lease liabilities. The standard also requires additional disclosures about the leasing arrangements. The provisions of the standard are effective for fiscal years beginning after December 15, 2018 and interim periods within those years. Early adoption is permitted.	We are currently evaluating the effect on our financial statements and related disclosures. Planned date of adoption: Q1 2020

ASU no. 2017-07

Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost

presentation of net periodic benefit cost in the decrease operating expenses (Cost of sales, income statement and what qualifies for capitalization on the balance sheet. The provisions of the standard are effective for fiscal years beginning after December 15, 2017 and interim periods within those fiscal years. Early adoption is permitted as of the beginning of an annual period. The amendment requires income statement presentation provisions to be applied retrospectively and capitalization in assets provisions to be applied prospectively.

The standard amends existing guidance on the We anticipate the adoption of this standard will Research and development and Selling, general and administrative) and increase other expense by approximately \$6,800 for the year ended September 29, 2018 and approximately \$12,600 for the year ended September 30, 2017. The adoption of this standard will not have a material impact on our Consolidated Balance Sheets, Consolidated Statements of Cash Flows and Notes to Consolidated Financial Statements. Planned date of adoption: Q1 2019

~		Financial Statement
Standard	Description	Effect or Other
		Significant Matters
ASU no. 2017-12 Targeted Improvements to Accounting for Hedging Activities	The standard expands the hedging strategies eligible for hedge accounting, while simplifying presentation and disclosure by eliminating separate measurement and reporting of hedge ineffectiveness. The provisions of the standard are effective for fiscal years beginning after December 15, 2018 and interim periods within those fiscal years. Early adoption is permitted.	We are currently evaluating the effect on our financial statements and related disclosures. Planned date of adoption: Q1 2020

We consider the applicability and impact of all ASUs. ASUs not listed above were assessed and determined to be either not applicable, or had or are expected to have minimal impact on our financial statements and related disclosures.

Note 2 - Acquisitions, Divestitures and Equity Method Investments

On April 30, 2018, we acquired Electro-Optical Imaging, a designer and manufacturer of video trackers and imaging products, located in Florida, for a purchase price net of acquired cash of \$5,001. This operation is included in our Space and Defense Controls segment. The purchase price allocation is subject to adjustments as we obtain additional information for our estimates during the measurement period.

On March 29, 2018, we acquired a 100% ownership interest in VUES Brno s.r.o located in the Czech Republic, which includes a 74% ownership interest in a subsidiary located in Germany. The purchase price, net of acquired cash, was \$64,337, consisting of \$42,960 in cash and \$21,377 of assumed debt. VUES designs and manufactures customized electric motors, generators and solutions. This operation is included in our Industrial Systems segment. The purchase price allocation is subject to adjustments as we obtain additional information for our estimates during the measurement period.

On October 3, 2017, we, in collaboration with SIA Engineering Company, announced the joint venture company, Moog Aircraft Services Asia ("MASA"), in Singapore, of which we currently hold a 51% ownership. MASA is intended to provide maintenance, repair and overhaul services for our manufactured flight control systems. As we hold a majority ownership in MASA, but share voting control, we are accounting for this investment using the equity method. At June 30, 2018, we have made total contributions of \$5,100. This operation is included in our Aircraft Controls segment.

In 2017, we sold non-core businesses of our Space and Defense Controls segment for \$7,210 in cash and recorded losses in other expense of \$13,119 related to the sales.

On April 2, 2017, we acquired Rotary Transfer Systems, a manufacturer of electromechanical systems, located in Germany and France for a purchase price, net of acquired cash, of \$42,593, consisting of \$40,545 in cash and \$2,048 in assumed pension obligations. This operation is included in our Industrial Systems segment.

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#### Note 3 - Receivables Receivables consist of:

	June 30, 2018	September 30 2017	),
Accounts receivable	\$293,967	\$ 286,773	
Long-term contract receivables:			
Amounts billed	138,862	148,087	
Unbilled recoverable costs and accrued profits	297,527	282,154	
Total long-term contract receivables	436,389	430,241	
Other	31,987	15,077	
Total receivables	762,343	732,091	
Less allowance for doubtful accounts	(4,888)	(4,351	)
Receivables	\$757,455	\$ 727,740	

We securitize certain trade receivables in transactions that are accounted for as secured borrowings (Securitization Program). We maintain a subordinated interest in a portion of the pool of trade receivables that are securitized. The retained interest, which is included in Receivables in the consolidated condensed balance sheets, is recorded at fair value, which approximates the total amount of the designated pool of accounts receivable. Refer to Note 6, Indebtedness, for additional disclosures related to the Securitization Program.

Note 4 - Inventories

Inventories, net of reserves, consist of:

	June 30,	September 30,
	2018	2017
Raw materials and purchased parts	\$187,483	\$ 189,517
Work in progress	251,865	229,202
Finished goods	75,230	70,408
Inventories	\$514,578	\$ 489,127
There are no material inventoried co	osts relating	y to long-term c

There are no material inventoried costs relating to long-term contracts where revenue is accounted for using the percentage of completion, cost-to-cost method of accounting as of June 30, 2018 or September 30, 2017.

## Note 5 - Goodwill and Intangible Assets

The changes in the carrying amount of goodwill are as follows:

	Aircraft Controls	Space and Defense Controls	Industrial Systems	Total
Balance at September 30, 2017	\$181,375	\$259,951	\$332,942	\$774,268
Acquisitions	_	3,769	17,541	21,310
Foreign currency translation	(780	)(96	)(3,876	)(4,752)
Balance at June 30, 2018	\$180,595	\$263,624	\$346,607	\$790,826

In 2018, we changed our segment reporting structure as our former Components segment was separated and merged into Space and Defense Controls and Industrial Systems. As a result, the September 30, 2017 balances for those segments were restated to reflect this change. Goodwill for Space and Defense Controls and Industrial Systems increased by \$86,995 and \$224,194, respectively, than what was previously reported.

Goodwill in our Space and Defense Controls segment is net of a \$4,800 accumulated impairment loss at June 30, 2018.

Goodwill in our Medical Devices reporting unit, included in our Industrial Systems segment, is net of a \$38,200 accumulated impairment loss at June 30, 2018.

The gross carrying amounts, accumulated amortization and amortization expense in the disclosures below reflect the full write off of intangible assets in relation to restructuring actions taken in our Industrial Systems segment. We recorded this charge during the second quarter of 2018 based on the expected cash flows over the remaining life of the assets. Refer to Note 11, Restructuring, for additional disclosures.

The components of intangible assets are as follows:

		June 30, 2	018	September	r 30, 2017	
	Weighted- Average Life (years)	Gross Carrying Amount	Accumulated Amortization	Gross Carrying Amount	Accumulate Amortizatio	
Customer-related	11	\$148,558	\$(97,083)	\$175,872	\$(128,019	)
Technology-related	10	72,722	(50,766)	71,924	(55,069	)
Program-related	19	65,676	(33,168)	66,458	(30,675	)
Marketing-related	8	24,945	(18,842)	26,552	(19,251	)
Other	10	4,333	(3,537)	4,379	(3,353	)
Intangible assets	12	\$316,234	\$(203,396)	\$345,185	\$ (236,367	)

Substantially all acquired intangible assets other than goodwill are being amortized. Customer-related intangible assets primarily consist of customer relationships. Technology-related intangible assets primarily consist of technology, patents, intellectual property and software. Program-related intangible assets consist of long-term programs represented by current contracts and probable follow on work. Marketing-related intangible assets primarily consist of trademarks, trade names and non-compete agreements.

Amortization of acquired intangible assets was \$4,127 and \$13,398 for the three and nine months ended June 30, 2018 and \$4,680 and \$13,880 for the three and nine months ended July 1, 2017. Based on acquired intangible assets recorded at June 30, 2018, amortization is expected to be approximately \$17,400 in 2018, \$15,300 in 2019, \$12,900 in 2020, \$10,700 in 2021 and \$9,100 in 2022.

Note 6 - Indebtedness

We maintain short-term line of credit facilities with banks throughout the world that are principally demand lines subject to revision by the banks.

Long-term debt consists of:

	June 30,	September 30,
	2018	2017
U.S. revolving credit facility	\$430,000	\$ 540,110
Senior notes	300,000	300,000
Securitization program	130,000	120,000
Obligations under capital leases	962	306
Senior debt	860,962	960,416
Less deferred debt issuance cost	(2,144)	(3,468)
Less current installments	(393)	(295)
Long-term debt	\$858,425	\$ 956,653

Our U.S. revolving credit facility matures on June 28, 2021. Our U.S. revolving credit facility has a capacity of \$1,100,000 and provides an expansion option, which permits us to request an increase of up to \$200,000 to the credit facility upon satisfaction of certain conditions. The credit facility is secured by substantially all of our U.S. assets. The loan agreement contains various covenants which, among others, specify interest coverage and maximum leverage. We are in compliance with all covenants.

At June 30, 2018, we had \$300,000 aggregate principal amount of 5.25% senior notes due December 1, 2022 with interest paid semiannually on June 1 and December 1 of each year. The senior notes are unsecured obligations, guaranteed on a senior unsecured basis by certain subsidiaries and contain normal incurrence-based covenants and limitations such as the ability to incur additional indebtedness, pay dividends, make other restricted payments and investments, create liens and certain corporate acts such as mergers and consolidations.

The Securitization Program matures on October 23, 2019 and effectively increases our borrowing capacity by up to \$130,000. Under the Securitization Program, we sell certain trade receivables and related rights to an affiliate, which in turn sells an undivided variable percentage ownership interest in the trade receivables to a financial institution, while maintaining a subordinated interest in a portion of the pool of trade receivables. Interest for the Securitization Program is based on 30-day LIBOR plus an applicable margin. A commitment fee is also charged based on a percentage of the unused amounts available and is not material. The agreement governing the Securitization Program contains restrictions and covenants which include limitations on the making of certain restricted payments, creation of certain liens, and certain corporate acts such as mergers, consolidations and sale of substantially all assets. The Securitization Program has a minimum borrowing requirement equal to the lesser of either 80% of our borrowing capacity or 100% of our borrowing base, which is a subset of the trade receivables sold under this agreement. As of June 30, 2018, our minimum borrowing requirement was \$104,000.

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#### Note 7 - Product Warranties

In the ordinary course of business, we warrant our products against defects in design, materials and workmanship typically over periods ranging from twelve to sixty months. We determine warranty reserves needed by product line based on historical experience and current facts and circumstances. Activity in the warranty accrual is summarized as follows:

	Three Months		Nine Months	
	Ended		Ended	
	June 30,	July 1,	June 30,	July 1,
	2018	2017	2018	2017
Warranty accrual at beginning of period	\$28,255	\$23,272	\$25,848	\$21,363
Additions from acquisitions		433		433
Warranties issued during current period	3,451	4,030	11,488	12,185
Adjustments to pre-existing warranties	(80)	(124)	(325)	(495)
Reductions for settling warranties	(3,219)	(4,046)	(9,141)	(9,509)
Foreign currency translation	(701)	420	(164)	8
Warranty accrual at end of period	\$27,706	\$23,985	\$27,706	\$23,985

Note 8 - Derivative Financial Instruments

We principally use derivative financial instruments to manage interest rate risk associated with long-term debt and foreign exchange risk related to foreign operations and foreign currency transactions. We enter into derivative financial instruments with a number of major financial institutions to minimize counterparty credit risk. Derivatives designated as hedging instruments

Interest rate swaps are used to adjust the proportion of total debt that is subject to variable and fixed interest rates. The interest rate swaps are designated as hedges of the amount of future cash flows related to interest payments on variable-rate debt that, in combination with the interest payments on the debt, convert a portion of the variable-rate debt to fixed-rate debt. At June 30, 2018, we had interest rate swaps with notional amounts totaling \$150,000. The interest rate swaps effectively convert this amount of variable-rate debt to fixed-rate debt at 2.87%, including the applicable margin of 1.63% as of June 30, 2018. The interest will revert back to variable rates based on LIBOR plus the applicable margin upon the maturity of the interest rate swaps. These interest rate swaps mature at various times through June 23, 2020.

We use foreign currency contracts as cash flow hedges to effectively fix the exchange rates on future payments and revenue. To mitigate exposure in movements between various currencies, including the Philippine peso, we had outstanding foreign currency forwards with notional amounts of \$40,088 at June 30, 2018. These contracts mature at various times through February 28, 2020.

We use forward currency contracts to hedge our net investment in certain foreign subsidiaries. To mitigate the exposure in foreign currencies, we had an outstanding net investment hedge in Euro, with a notional amount of \$27,227 at June 30, 2018, maturing in our fourth quarter of 2018.

These interest rate swaps, foreign currency contracts and net investment hedges are recorded in the consolidated condensed balance sheets at fair value and the related gains or losses are deferred in shareholders' equity as a component of Accumulated Other Comprehensive Income (Loss) (AOCIL). These deferred gains and losses are reclassified into the consolidated condensed statements of earnings, as necessary, during the periods in which the related payments or receipts affect earnings. However, to the extent the interest rate swaps and foreign currency contracts are not perfectly effective in offsetting the change in the value of the payments and revenue being hedged, the ineffective portion of these contracts is recognized in earnings immediately. Ineffectiveness was not material in the first nine months of 2018 or 2017.

Derivatives not designated as hedging instruments

We also have foreign currency exposure on balances, primarily intercompany, that are denominated in foreign currencies and are adjusted to current values using period-end exchange rates. The resulting gains or losses are recorded in the consolidated condensed statements of earnings. To minimize foreign currency exposure, we had foreign currency contracts with notional amounts of \$122,408 at June 30, 2018. The foreign currency contracts are recorded in the consolidated condensed balance sheets at fair value and resulting gains or losses are recorded in the consolidated condensed balance sheets at fair value and resulting gains or losses are recorded in the consolidated condensed balance sheets at fair value and resulting gains or losses are recorded in the consolidated condensed balance sheets at fair value and resulting gains or losses for the foreign currency contracts which are included in other income or expense and generally offset the gains or losses from the foreign currency adjustments on the intercompany balances that are also included in other income or expense:

Three Months	Nine Months		
Ended	Ended		
June 30, July 1,	June 30, July 1,		
2018 2017	2018 2017		
Net			
g\$i(n),028) \$(1,440)	\$(4,037) \$(539)		
(loss)			
Summary of derivati	ves		
The fair value and cl	assification of derivatives is summarized as follows:		
		June 30,	September 30,
		2018	2017

		2018	2017
Derivatives designated as hedging instruments:			
Foreign currency contracts	Other current assets	\$370	\$ 551
Foreign currency contracts	Other assets	28	50
Interest rate swaps	Other current assets	1,543	552
Interest rate swaps	Other assets	439	314
	Total asset derivatives	\$ 2,380	\$ 1,467
Foreign currency contracts	Other accrued liabilities	\$1,824	\$ 1,434
Foreign currency contracts	Other long-term liabilities	508	244
Interest rate swaps	Other accrued liabilities		10
Interest rate swaps	Other long-term liabilities		15
Net investment hedge	Other accrued liabilities	5	
	Total liability derivatives	\$ 2,337	\$ 1,703
Derivatives not designated as hedging instrume	nts:		
Foreign currency contracts	Other current assets	\$461	\$ 95
Foreign currency contracts	Other accrued liabilities	\$647	\$ 383

Note 9 - Fair Value

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Depending on the nature of the asset or liability, various techniques and assumptions can be used to estimate fair value. The definition of the fair value hierarchy is as follows:

Level 1 – Quoted prices in active markets for identical assets and liabilities.

Level 2 - Observable inputs other than quoted prices in active markets for similar assets and liabilities.

Level 3 – Inputs for which significant valuation assumptions are unobservable in a market and therefore value is based on the best available data, some of which is internally developed and considers risk premiums that a market participant would require.

Our derivatives are valued using various pricing models or discounted cash flow analyses that incorporate observable market data, such as interest rate yield curves and currency rates, and are classified as Level 2 within the valuation hierarchy.

The following table presents the fair values and classification of our financial assets and liabilities measured on a recurring basis, all of which are classified as Level 2.

	Classification	June 30,	September 30,
	Classification	2018	2017
Foreign currency contracts	Other current assets	\$831	\$ 646
Foreign currency contracts	Other assets	28	50
Interest rate swaps	Other current assets	1,543	552
Interest rate swaps	Other assets	439	314
	Total assets	\$2,841	\$ 1,562
Foreign currency contracts	Other accrued liabilities	\$2,471	\$ 1,817
Foreign currency contracts	Other long-term liabilities	508	244
Interest rate swaps	Other accrued liabilities		10
Interest rate swaps	Other long-term liabilities		15
Net investment hedge	Other accrued liabilities	5	
	Total liabilities	\$ 2,984	\$ 2,086

Our only financial instrument for which the carrying value differs from its fair value is long-term debt. At June 30, 2018, the fair value of long-term debt was \$865,650 compared to its carrying value of \$860,962. The fair value of long-term debt is classified as Level 2 within the fair value hierarchy and was estimated based on quoted market prices.

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## Note 10 - Employee Benefit Plans

Net periodic benefit costs for our defined benefit pension plans are as follows:

	Three Months	Nine Months
	Ended	Ended
	June 30, July 1,	June 30, July 1,
	2018 2017	2018 2017
U.S. Plans		
Service cost	\$5,634 \$6,044	\$16,901 \$18,087
Interest cost	8,073 7,659	24,219 22,930
Expected return on plan assets	(13,575) (13,62	7) (40,726 ) (40,882 )
Amortization of prior service cost (credit)	46 46	140 140
Amortization of actuarial loss	6,903 8,465	20,707 25,303
Pension expense for U.S. defined benefit plans	\$7,081 \$8,587	7 \$21,241 \$25,578
Non-U.S. Plans		
Service cost	\$1,486 \$1,499	9 \$4,475 \$4,545
Interest cost	1,066 794	3,213 2,291
Expected return on plan assets	(1,260) (1,180	) (3,793 ) (3,433 )
Amortization of prior service cost (credit)	(15) (26	) (44 ) (80 )
Amortization of actuarial loss	630 1,145	1,902 3,374
Curtailment gain	— (150	) — (150 )
Pension expense for non-U.S. defined benefit plans	\$1,907 \$2,082	2 \$5,753 \$6,547
Pension expense for our defined contribution plans of	consists of:	
-	Three Months	Nine Months
	Ended	Ended
	June 30,July 1	, June 30, July 1,
	2018 2017	2018 2017
U.S. defined contribution plans	\$4,374 \$3,92	6 \$12,482 \$11,182
Non-U.S. defined contribution plans	1,460 1,534	4,719 4,366
Total pension expense for defined contribution plans		
Contributions for all of our U.S. defined benefit pen		
······································	1 1	

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#### Note 11 - Restructuring

In 2018, we initiated restructuring actions in conjunction with exiting the wind pitch control business within our Industrial Systems segment. These actions will result in workforce reductions, principally in Germany and China. Charges taken consist of \$9,727 of non-cash inventory reserves, \$12,316 of non-cash charges for the impairment of intangible assets, \$2,203 of non-cash charges, primarily for the impairment of long-lived assets, \$6,039 for severance and \$1,951 for other costs.

Restructuring activity for severance and other costs is as follows:

	Aircraft	Industria	<sup>al</sup> Corpora	to Total	
	Controls	Systems	Corpora	le l'otal	
Balance at September 30, 2017	\$ 130	\$ <i>—</i>	\$ 1,038	\$1,168	
Charged to expense - 2018 plan		32,236		32,236	
Non-cash charges - 2018 plan		(24,246	)—	(24,246)	
Cash payments - 2018 plan		(354	)—	(354)	
Cash payments - 2016 plan	(130)	) <u> </u>	(446	)(576)	
Foreign currency translation		(206	)—	(206)	
Balance at June 30, 2018	\$ —	\$7,430	\$ 592	\$8,022	
					-

As of June 30, 2018, the restructuring accrual consists of \$592 for the 2016 plan and \$7,430 for the 2018 plan. Restructuring for all plans is expected to be paid by September 28, 2019.

Note 12 - Income Taxes

The effective tax rates for the three and nine months ended June 30, 2018 were 25.8% and 56.4%, respectively. The effective tax rate for the nine months ended June 30, 2018 is higher than would be expected by applying the U.S. federal statutory tax rate to earnings before income taxes primarily due to the enactment of the Tax Cuts and Jobs Act (the "Act") of 2017 and limited tax benefits associated with the restructuring charges taken in foreign jurisdictions of our Industrial Systems segment.

The Act was enacted on December 22, 2017. It reduces the U.S. federal corporate tax rate from 35% to 21%, requires companies to pay a one-time transition tax on earnings of certain foreign subsidiaries that were previously tax deferred and creates new taxes on certain foreign sourced earnings. As of June 30, 2018, we have not completed the accounting for the tax effects of enactment of the Act; however, as described below, we have made a reasonable estimate of the effects on the one-time transition tax, withholding taxes on earnings deemed to be repatriated and existing deferred tax balances. These amounts are provisional and subject to change as the determination of the impact of the income tax effects will require additional analysis of historical records, annual data and further interpretation of the Act from yet to be issued U.S. Treasury regulations.

During the nine months ended June 30, 2018, we recorded a \$31,300 one-time transition tax on undistributed foreign earnings deemed to be repatriated and a tax charge of \$16,085 as an additional provision for taxes on undistributed earnings not considered to be permanently reinvested. No additional income taxes have been provided for any remaining undistributed foreign earnings not subject to the transition tax, or any additional outside basis difference inherent in these entities, as these amounts continue to be indefinitely reinvested in foreign earnings not subject to the transition tax and additional outside basis difference in these entities is not practicable. These charges are partially offset by a \$9,487 benefit due to the remeasurement of deferred tax assets and liabilities arising from a lower U.S. corporate tax rate, which took into account our decision to accelerate pension contributions into our 2017 pension plan year. This allows the pension contribution tax deduction to be taken in our 2017 federal income tax return which is taxed at the 35% federal rate.

The effective tax rate for the three and nine months ended July 1, 2017 were 17.0% and 23.4%, respectively. The effective tax rate for these periods are lower than would be expected by applying the U.S. federal statutory tax rate to earnings before income taxes primarily from the tax benefits associated with divesting non-core businesses in Space and Defense Controls and the recognition and timing of U.S. tax incentives.

Note 13 - Accumulated Other Comprehensive Income (Loss)

The changes in AOCIL, net of tax, by component for the nine months ended June 30, 2018 are as follows:

	Accumulate foreign currency translation (1)	d Accumulated retirement liability	Accumulated gain (loss) on derivatives	d Total
AOCIL at September 30, 2017	\$ (83,166	) \$(251,865)	\$ (460 )	\$(335,491)
Other comprehensive income (loss) before reclassifications	(10,101	) 330	(640)	(10,411)
Amounts reclassified from AOCIL		15,688	548	16,236
Other comprehensive income (loss)	(10,101	) 16,018	(92)	5,825
Tax Cuts and Jobs Act, reclassification from AOCIL to retained earnings <sup>(2)</sup>		(47,209)	132	(47,077 )
AOCIL at June 30, 2018	\$ (93,267	) \$(283,056)	\$ (420 )	\$(376,743)

<sup>(1)</sup> Net gains and losses on net investment hedges are recorded as cumulative translation adjustments in AOCIL to the extent that the instruments are effective in hedging the designated risk.

<sup>(2)</sup> In the second quarter of 2018, we early adopted ASU 2018-02 and reclassified the stranded deferred tax effects resulting from the Tax Cuts and Jobs Act to retained earnings.

The amounts reclassified from AOCIL into earnings are as follows:

	Three Months	Nine Months
	Ended	Ended
Statement of earnings classification	June 30, July 1,	June 30, July 1,
Statement of earnings classification	2018 2017	2018 2017
Retirement liability:		
Prior service cost (credit)	\$(86) \$22	\$(257) \$61
Actuarial losses	7,405 9,488	22,224 28,311
Reclassification from AOCIL into earnings <sup>(1)</sup>	7,319 9,360	21,967 28,222
Tax effect	(1,791) (3,450)	(6,279) (10,301)
Net reclassification from AOCIL into earnings	\$5,528 \$5,910	\$15,688 \$17,921
Derivatives:		
Foreign currency contracts Sales	\$(122) \$801	\$(378) \$3,255
Foreign currency contracts Cost of sales	428 582	1,626 1,713
Interest rate swaps Interest	(259) 20	(375) 198
Reclassification from AOCIL into earnings	47 1,403	873 5,166
Tax effect	(18) (384)	(325) (1,357)
Net reclassification from AOCIL into earnings	\$29 \$1,019	\$548 \$3,809

<sup>(1)</sup> The reclassifications are included in the computation of net periodic pension cost and postretirement benefit cost. The amounts deferred in AOCIL are as follows:

	Net deferral in AOCIL - effective portion			fective
	Three Mo	onths	Nine Mor	nths
	Ended		Ended	
	June 30,	July 1,	June 30,	July 1,
	2018	2017	2018	2017
Foreign currency contracts	\$(1,246)	\$ 68	\$(2,073)	\$(2,041)
Interest rate swaps	223	(151)	1,470	612
Net gain (loss)	(1,023)	(83)	(603)	(1,429)
Tax effect	247	77	(37)	453

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Net deferral in AOCIL of derivatives (776) (6) (640) (976)

Note 14 - Stock Employee Compensation Trust and Supplemental Retirement Plan Trust The Stock Employee Compensation Trust (SECT) assists in administering and provides funding for equity-based compensation plans and benefit programs, including the Moog Inc. Retirement Savings Plan (RSP). The Supplemental Retirement Plan (SERP) Trust provides funding for benefits under the SERP provisions of the Moog Inc. Plan to Equalize Retirement Income and Supplemental Retirement Income. Both the SECT and the SERP Trust hold shares as investments. The shares in the SECT and SERP Trust are not considered outstanding for purposes of calculating earnings per share. However, in accordance with the trust agreements governing the SECT and SERP Trust, the trustees vote all shares held by the SECT and SERP Trust on all matters submitted to shareholders. Note 15 - Earnings per Share

Basic and diluted weighted-average shares outstanding are as follows:

	Three Months Ended		Nine Months Ended		
	June 30,	July 1,	June 30,	July 1,	
	2018	2017	2018	2017	
5	35,762,918	35,847,842	35,768,471	35,868,315	
	380,449	364,937	406,288	372,479	

Basic weighted-average shares outstanding Dilutive effect of equity-based awards

Diluted weighted-average shares outstanding 36,143,367 36,212,779 36,174,759 36,240,794

For the three and nine months ended June 30, 2018, there were 25,570 and 19,780 common shares from equity-based awards, respectively, excluded from the calculation of diluted earnings per share as they would be anti-dilutive. For the three and nine months ended July 1, 2017, there were 67,597 and 94,273 common shares from equity-based awards, respectively, excluded from the calculation of diluted earnings per share as they would be anti-dilutive. During the second quarter of 2018, the Board of Directors declared a \$0.25 per share quarterly dividend payable on issued and outstanding shares of our Class A and Class B common stock on June 1, 2018 to shareholders of record at the close of business on May 15, 2018.

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#### Note 16 - Segment Information

Effective October 1, 2017, we made changes to our segment reporting structure that resulted in three reporting segments. Our former Components segment has been separated and merged into Space and Defense Controls and Industrial Systems. All amounts have been restated to reflect this change.

Below are sales and operating profit by segment for the three and nine months ended June 30, 2018 and July 1, 2017 and a reconciliation of segment operating profit to earnings before income taxes. Operating profit is net sales less cost of sales and other operating expenses, excluding interest expense, equity-based compensation expense and other corporate expenses. Cost of sales and other operating expenses are directly identifiable to the respective segment or allocated on the basis of sales, number of employees or profit.

Refer to Note 11, Restructuring, for the impact of amounts charged to expense that are reflected in the operating profit of the Industrial Systems segment.

	Three Months		Nine Months Ended	
	Ended	Ended		li Liided
	June 30,	July 1,	June 30,	July 1,
	2018	2017	2018	2017
Net sales:				
Aircraft Controls	\$299,605	\$282,555	\$889,578	\$840,666
Space and Defense Controls	149,815	128,049	426,735	389,473
Industrial Systems	242,598	215,579	692,289	618,117
Net sales	\$692,018	\$626,183	\$2,008,602	\$1,848,256
Operating profit:				
Aircraft Controls	\$33,342	\$29,080	\$97,590	\$83,372
Space and Defense Controls	16,513	12,789	49,643	33,258
Industrial Systems	24,283	21,726	37,479	64,154
Total operating profit	74,138	63,595	184,712	180,784
Deductions from operating profit:				
Interest expense	8,850	8,654	26,585	25,789
Equity-based compensation expense	894	997	4,394	4,151
Corporate and other expenses, net	9,439	5,671	25,275	17,880
Earnings before income taxes	\$54,955	\$48,273	\$128,458	\$132,964

The amounts reclassified for net sales and operating profit as a result of the revised segment reporting structure for the three and nine months ended July 1, 2017 are as follows:

	Three	Nine
	Months	Months
	Ended	Ended
Net sales:		
Space and Defense Controls	\$33,531	\$96,177
Industrial Systems	93,089	267,797
Total	\$126,620	\$363,974
Operating profit:		
Space and Defense Controls	\$2,784	\$5,669
Industrial Systems	9,255	28,664
Total	\$12,039	\$34,333
a a a		<b>A</b> 1

Segment assets for Space and Defense Controls and Industrial Systems are approximately \$645,000 and \$1,120,000, respectively, as of June 30, 2018, primarily as a result of the change to our segment reporting structure. Corporate assets not allocated to our reporting segments, have decreased from \$270,411 as of September 30, 2017 to approximately \$81,000 as of June 30, 2018, primarily as a result of the repayment of debt and defined benefit pension contributions.

#### Note 17 - Related Party Transactions

On November 20, 2017, John Scannell was elected to the Board of Directors of M&T Bank Corporation and M&T Bank. We currently engage with M&T Bank in the ordinary course of business for various financing activities, all of which were initiated prior to the election of Mr. Scannell to the Board. M&T Bank provides credit extension for routine purchases, which for the nine months ended June 30, 2018 totaled \$16,790. At June 30, 2018, we held a \$15,000 interest rate swap with M&T Bank and outstanding leases with a total original cost of \$28,984. M&T Bank also maintains an interest of approximately 12% in our U.S. revolving credit facility. Further details of the U.S. revolving credit facility can be found in Note 6, Indebtedness.

Note 18 - Commitments and Contingencies

From time to time, we are involved in legal proceedings. We are not a party to any pending legal proceedings which management believes will result in a material adverse effect on our financial condition, results of operations or cash flows.

We are engaged in administrative proceedings with governmental agencies and legal proceedings with governmental agencies and other third parties in the normal course of our business, including litigation under Superfund laws, regarding environmental matters. We believe that adequate reserves have been established for our share of the estimated cost for all currently pending environmental administrative or legal proceedings and do not expect that these environmental matters will have a material adverse effect on our financial condition, results of operations or cash flows.

In the ordinary course of business we could be subject to ongoing claims or disputes from our customers, the ultimate settlement of which could have a material adverse impact on our consolidated results of operations. While the receivables and any loss provisions recorded to date reflect management's best estimate of the projected costs to complete a given project, there may still be significant effort required to complete the ultimate deliverable. Future variability in internal cost as well as future profitability is dependent upon a number of factors including deliveries, performance and government budgetary pressures. The inability to achieve a satisfactory contractual solution, further unplanned delays, additional developmental cost growth or variations in any of the estimates used in the existing contract analysis could lead to further loss provisions. Additional losses could have a material adverse impact on our financial condition, results of operations or cash flows in the period in which the loss may be recognized. We are contingently liable for \$44,232 of standby letters of credit issued by a bank to third parties on our behalf at June 30, 2018.

Note 19 - Subsequent Event

On July 26, 2018, the Board of Directors declared a \$0.25 per share quarterly dividend payable on issued and outstanding shares of our Class A and Class B common stock on September 4, 2018 to shareholders of record at the close of business on August 15, 2018.

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

The following should be read in conjunction with Management's Discussion and Analysis of Financial Condition and Results of Operations contained in the Company's Annual Report filed on Form 10-K for the fiscal year ended September 30, 2017. All references to years in this Management's Discussion and Analysis of Financial Condition and Results of Operations are to fiscal years and amounts may differ from reported values due to rounding. OVERVIEW

We are a worldwide designer, manufacturer and systems integrator of high performance precision motion and fluid controls and control systems for a broad range of applications in aerospace and defense and industrial markets. Within the aerospace and defense market, our products and systems include:

Defense market - primary and secondary flight controls for military aircraft, stabilization and automatic ammunition loading controls for armored combat vehicles, tactical and strategic missile steering controls and gun aiming controls. Commercial aircraft market - primary and secondary flight controls for commercial aircraft.

Commercial space market - satellite positioning controls and thrust vector controls for space launch vehicles. In the industrial market, our products are used in a wide range of applications including:

Industrial automation market - injection molding, metal forming, heavy industry, material and automotive testing and pilot training simulators.

Energy market - power generation, oil and gas exploration and wind energy.

Medical market - enteral clinical nutrition and infusion therapy pumps, ultrasonic sensors and surgical handpieces and CT scanners.

We operate under three segments, Aircraft Controls, Space and Defense Controls and Industrial Systems. Our principal manufacturing facilities are located in the United States, Philippines, United Kingdom, Germany, Czech Republic, Costa Rica, India, China, Japan, Italy, Netherlands, Canada, Ireland and Luxembourg.

We have long-term contracts with some of our customers. These contracts are predominantly within Aircraft Controls and Space and Defense Controls and represent 38%, 34% and 33% of our sales in 2017, 2016 and 2015, respectively. We recognize revenue on these contracts using the percentage of completion, cost-to-cost method of accounting as work progresses toward completion. The remainder of our sales are recognized when the risks and rewards of ownership and title to the product are transferred to the customer, principally as units are delivered or as service obligations are satisfied. This method of revenue recognition is predominantly used within the Industrial Systems segment, as well as with aftermarket activity.

We concentrate on providing our customers with products designed and manufactured to the highest quality standards. Our products are applied in demanding applications, "When Performance Really Matters<sup>®</sup>." We believe we have achieved a leadership position in the high performance, precision controls market, by capitalizing on our core foundational strengths, which are our technical experts working collaboratively around the world and the capabilities we deliver for mission-critical solutions. These strengths yield a broad control product portfolio, across a diverse base of customers and end markets.

By focusing on customer intimacy and commitment to solving their most demanding technical problems, we have been able to innovate our control product franchise from one market to another, organically growing from a high-performance components supplier to a high-performance systems supplier. In addition, we continue achieving substantial content positions on the platforms on which we currently participate, seeking to be the dominant supplier in the current niche markets we serve. We also look for innovation in all aspects of our business, employing new technologies to improve productivity and to develop innovative business models.

Our fundamental strategies to achieve our goals center around talent, lean and innovation and include: a strong leadership team that has positioned the company for growth,

utilizing our global capabilities and strong engineering heritage to innovate,

maintaining our technological excellence by solving our customers' most demanding technical problems in applications "When Performance Really Matters<sup>®</sup>,"

continuing to invest in talent development to strengthen employee performance, and

maximizing customer value by implementing lean enterprise principles.

These activities will help us achieve our financial objective of increasing shareholder value with sustainable competitive advantages across our segments. In doing so, we expect to maintain a balanced, diversified portfolio in terms of markets served, product applications, customer base and geographic presence.

We focus on improving shareholder value through strategic revenue growth, both acquired and organic, through improving operating efficiencies and manufacturing initiatives and through utilizing low cost manufacturing facilities without compromising quality. Additionally, we take a balanced approach to capital deployment, which may include strategic acquisitions or further share buyback activity, in order to maximize shareholder returns over the long-term. Acquisitions, Divestitures and Equity Method Investments

All of our acquisitions are accounted for under the purchase method and, accordingly, the operating results for the acquired companies are included in the consolidated statements of earnings from the respective dates of acquisition. Under purchase accounting, we record assets and liabilities at fair value and such amounts are reflected in the respective captions on the consolidated balance sheets. The purchase price described for each acquisition below is net of any cash acquired, includes debt issued or assumed and the fair value of contingent consideration.

On April 30, 2018, we acquired Electro-Optical Imaging, a designer and manufacturer of video trackers and imaging products, located in Florida, for \$5 million. This operation is included in our Space and Defense Controls segment. On March 29, 2018, we acquired a 100% ownership interest in VUES Brno s.r.o located in the Czech Republic, which includes a 74% ownership interest in a subsidiary located in Germany, for \$64 million. VUES designs and manufactures customized electric motors, generators and solutions. This operation is included in our Industrial Systems segment.

On October 3, 2017, we, in collaboration with SIA Engineering Company, announced the joint venture company, Moog Aircraft Services Asia ("MASA"), in Singapore, of which we currently hold a 51% ownership. MASA is intended to provide maintenance, repair and overhaul services for our manufactured flight control systems. As we hold a majority ownership in MASA, but share voting control, we are accounting for this investment using the equity method. At June 30, 2018, we have made total contributions of \$5 million to MASA. This operation is included in our Aircraft Controls segment.

In 2017, we acquired Rotary Transfer Systems, a manufacturer of electromechanical systems, located in Germany and France for \$43 million. This acquisition is included in our Industrial Systems segment. We also sold non-core businesses in our Space and Defense Controls segment for \$7 million and recorded losses in other expense of \$13 million related to the sales.

#### CRITICAL ACCOUNTING POLICIES

On a regular basis, we evaluate the critical accounting policies used to prepare our consolidated financial statements, including, but not limited to, revenue recognition on long-term contracts, contract and contract-related loss reserves, reserves for inventory valuation, reviews for impairment of goodwill, reviews for impairment of long-lived assets, pension assumptions and income taxes. See Note 12 of the Consolidated Condensed Financial Statements included in Item 1, Financial Statements of this report for the impact of the enactment of the Tax Cuts and Jobs Act of 2017.

Other than that described below, there have been no material changes in critical accounting policies in the current year from those disclosed in our 2017 Annual Report on Form 10-K.

Reviews for Impairment of Goodwill

#### Interim Test

Effective October 1, 2017, we changed our segment reporting structure from four to three reporting segments. The former Components reporting segment has been divided and merged into the Space and Defense Controls and Industrial Systems reporting segments. This change also impacted the reporting units we use to review goodwill for impairment. Based on the accounting rules that require aggregation of components with similar economic characteristics, we have changed the number of reporting units from five to four - Aircraft Controls, Space and Defense Controls, Industrial Systems and Medical Devices.

We transferred or allocated the assets and liabilities of the former Components business including the proportionate share of goodwill based on the relative fair value of the business to the new respective reporting units - Space and Defense Controls and Industrial Systems. We then compared the fair values to the carrying values of the reporting units and the resulting fair values exceeded the carrying values, so we determined that goodwill was not impaired. The fair value of each of these two reporting units exceeded the carrying amounts by over 100%. While any individual assumption could differ from those that we used, we believe the overall fair values of these reporting units are reasonable, as the values are derived from a mix of reasonable assumptions. Had we used discount rates that were 100 basis points higher or a terminal growth rate that was 100 basis points lower than those we assumed, the fair values of each of these reporting units would have continued to exceed their carrying amounts by at least 80%.

#### RECENT ACCOUNTING PRONOUNCEMENTS

See Note 1 of the Consolidated Condensed Financial Statements included in Item 1, Financial Statements of this report for further information regarding Financial Accounting Standards Board issued Accounting Standards Updates ("ASU").

#### CONSOLIDATED RESULTS OF OPERATIONS

	Three Months Ended				Nine Months Ended					
(dollars and shares in millions, except per	June 30	),July 1,	\$	%		June 3	0, July 1,	\$	%	
share data)	2018	2017	Variano	ce Var	iance	2018	2017	Varian	ce Varia	ance
Net sales	\$692	\$626	\$ 66	11	%	\$2,009	\$1,848	\$ \$160	9	%
Gross margin	28.5 9	%29.1 °	%			28.6	%29.2	%		
Research and development expenses	\$31	\$36	\$ (5	) (15	%)	\$98	\$108	\$(10	)(10	%)
Selling, general and administrative	14.9 9	%14.2 °	7.			14.9	%14.1	%		
expenses as a percentage of sales	14.9 7	014.2	/0			14.9	70 14.1	70		
Interest expense	<b>\$9</b>	\$9	\$ —	2	%	\$27	\$26	\$1	3	%
Restructuring expense	\$(2)	\$—	\$ (2	) n/a		\$23	\$—	\$23	n/a	
Other	\$1	\$—	\$ 1	n/a		\$—	\$12	\$(12	)(100	%)
Effective tax rate	25.8 %	%17.0	%			56.4	%23.4	%		
Net earnings attributable to Moog	\$41	\$40	\$1	1	%	\$56	\$103	\$ (47	) (46	%)
Diluted earnings per share attributable to	\$1.13	\$1.11	\$ 0.02	2	%	\$1.55	\$2.83	\$(1.28	) (45	%)
Moog	φ1.13	φ1.11	φ 0.02	2	10	φ1.55	φ2.65	φ(1.20	)(+)	10)

Net sales increased across all of our segments in the third quarter and in the first three quarters of 2018 compared to the third quarter and the first three quarters of 2017. Through the first three quarters of 2018, our recent acquisitions in Space and Defense Controls and Industrial Systems contributed an incremental \$4 million and \$22 million of sales, respectively.

Gross margin decreased in the third quarter of 2018 compared to the third quarter of 2017. Gross profit in the third quarter of 2018 includes a \$2 million inventory write-down associated with the restructuring expense in Industrial Systems. In addition, Aircraft Controls' gross margin declined due to pricing pressure on military OEM programs as well as lower amounts of legacy commercial sales, offset partially by incremental margins from higher commercial aftermarket sales. In the first three quarters of 2018 compared to the first three quarters of 2017, gross margin excluding the inventory write-down was relatively unchanged. An improved sales mix in Industrial Systems was offset by a negative sales mix in Space and Defense Controls.

Research and development expenses decreased in the third quarter and in the first three quarters of 2018 compared to the same periods of 2017. Within Aircraft Controls, research and development expenses decreased \$7 million and \$15 million, respectively, as we had lower activity across our major commercial development programs. The reduced spend was partially offset by increases in research and development activities across our other two segments. Selling, general and administrative expenses as a percentage of sales increased in the third quarter and in the first three quarters of 2018 compared to the same periods of 2017. This increase is due to higher planned selling expense in select growth markets, primarily in Industrial Systems, acquisition-related expenses and higher healthcare costs. In the second quarter of 2018, we decided to phase out our participation in the wind pitch control business over the remainder of our fiscal year. Through the second and third quarters of 2018, we incurred \$32 million of restructuring expense in Industrial Systems. Of the total expense, the charges consist of \$10 million of non-cash inventory reserves, \$12 million of non-cash charges for the impairment of intangible assets, \$2 million for other costs.

Other expense in first three quarters of 2017 included losses associated with selling our non-core businesses in Space and Defense Controls.

The effective tax rate in the first three quarters of 2018 was significantly impacted by the enactment of the Tax Cuts and Jobs Act of 2017. Excluding the one-time special impacts due to the Act, the effective tax rate for the first three quarters of 2018 was 26.8%. The effective tax rate was also impacted by limited tax benefits associated with the restructuring charges taken in foreign jurisdictions of our Industrial Systems segment.

Our effective tax rates in 2017 include the benefits associated with divesting non-core businesses in Space and Defense Controls and the recognition and timing of U.S. tax incentives.

Other comprehensive income in the third quarter of 2018 includes \$41 million of foreign currency translation loss, whereas other comprehensive income in the third quarter of 2017 includes \$33 million of foreign currency translation income. Foreign currency translation adjustments decreased \$74 million and is primarily attributable to changes in the Euro and the British Pound.

### SEGMENT RESULTS OF OPERATIONS

Effective October 1, 2017, we changed our segment reporting structure to three reporting segments. Our former Components segment has been separated and merged into Space and Defense Controls and Industrial Systems. All amounts have been restated to conform to the current presentation.

Operating profit, as presented below, is net sales less cost of sales and other operating expenses, excluding interest expense, equity-based compensation expense and other corporate expenses. Cost of sales and other operating expenses are directly identifiable to the respective segment or allocated on the basis of sales, manpower or profit. Operating profit is reconciled to earnings before income taxes in Note 16 of the Notes to Consolidated Condensed Financial Statements included in this report.

Aircraft Controls

	Three Months Ended					Nine Months Ended					
(dollars in millions)	June 30, 2018	July 1, 2017		ariance	% Varia	ance	June 30, 2018	July 1, 2017	\$ Variance	% Varia	ance
Net sales - military aircraft	\$144	\$130	\$	14	11	%	\$424	\$394	\$ 30	8	%
Net sales - commercial aircraft	156	153	3		2	%	466	447	19	4	%
	\$300	\$283	\$	17	6	%	\$890	\$841	\$ 49	6	%
Operating profit	\$33	\$29	\$	4	15	%	\$98	\$83	\$ 14	17	%
Operating margin	11.1 %	610.3 %	, ว				11.0 %	69.9 %	)		
Backlog							\$726	\$543	\$ 183	34	%

Aircraft Controls' net sales increased in the third quarter of 2018 compared to the third quarter of 2017, driven primarily by increases in military OEM and aftermarket sales. Aircraft Controls' net sales also increased in the first three quarters of 2018 compared to the first three quarters of 2017, driven by increased military OEM and commercial aftermarket sales.

In the third quarter of 2018 compared to the third quarter of 2017, military OEM sales increased \$9 million and military aftermarket sales increased \$5 million. Higher production for the F-35 OEM program increased sales \$10 million. Also in the third quarter, higher spares orders for the F-18 and V-22 programs contributed to the higher aftermarket sales. Additionally in the third quarter of 2018, sales in commercial aftermarket increased \$7 million due to higher initial provisioning orders for the Airbus A350 and recapture activities on legacy Boeing programs. However, declining volumes on legacy Boeing and Airbus programs decreased commercial OEM sales by \$4 million. Through the first three quarters of 2018 compared to the same period of 2017, military OEM sales increased \$31 million. Higher foreign military sales and contract awards for navigational aides products increased sales \$16 million, and higher production levels on the F-35 program increased sales \$10 million. Through the first three quarters of 2018 million driven by recapture activities and higher initial provisioning orders. Partially offsetting these increases was a \$6 million decline in commercial OEM sales, as declining volumes on legacy Boeing was a volume increases on newer programs.

Operating margin in the third quarter of 2018 increased compared to the third quarter of 2017. Operating profit benefited from lower research and development expenses, as we had lower activity on our major commercial development programs, and higher foreign military OEM and commercial aftermarket sales. However, these impacts were partially offset by pricing pressure on military OEM programs as well as lower amounts of legacy commercial sales. Operating margin in the first three quarters of 2018 increased compared to the operating margin in the first three quarters of 2018 necessary for the operating margin in the first three quarters of 2018 million due to lower activity on our major commercial development programs. Additionally, operating profit benefited from higher amounts of foreign military sales.

The increase of twelve-month backlog for Aircraft Controls at June 30, 2018 compared to July 1, 2017 is due to the timing of military orders, especially for the F-35.

Space and Defense Controls												
	Three Months Ended					Nine Months Ended						
(dollars in millions)	June 3 2018	0July 1, 2017	\$ Va	ariance	% Vari	ance	June 30, 2018	July 1, 2017		ariance	% Vari	ance
Net sales	\$150	\$128	\$	22	17	%	\$427	\$389	\$	37	10	%
Operating profit	\$17	\$13	\$	4	29	%	\$50	\$33	\$	16	49	%
Operating margin	11.0 %	610.0 9	6				11.6 %	68.5 %	6			
Backlog							\$453	\$386	\$	67	17	%

Space and Defense Controls' net sales increased in both of our markets in the third quarter and through the first three quarters of 2018 compared to the same periods of 2017.

In the third quarter of 2018 compared to the third quarter of 2017, sales in our defense market increased \$12 million. Specifically, security sales increased \$8 million due to the Electro-Optical Imaging acquisition as well as higher legacy security product sales. Also, higher orders for defense components increased sales \$3 million. Additionally in the third quarter of 2018, sales within our space market increased \$9 million. Specifically, higher development work on launch vehicles increased sales \$7 million and new satellite avionics programs also increased sales \$6 million. These sales increases were partially offset by \$5 million associated with the lost sales of our 2017 divested non-core businesses.

Through the first three quarters of 2018 compared to the first three quarters of 2017, sales increased \$21 million in our space market. New satellite avionic orders and higher launch vehicle work more than offset \$15 million of lost sales associated with the 2017 divested operations. Through the first three quarters of 2018, sales increased \$17 million in our defense market. Higher orders for defense components and security programs increased sales \$21 million, partially offset by the timing of naval product sales.

Operating margin increased in the third quarter of 2018 compared to the third quarter of 2017. Lower operating expenses as a percentage of sales offset a negative sales mix, as the prior year's defense production programs have since wound down. Operating margin increased in the first three quarters of 2018 compared to the same period of 2017 due to the absence of last year's losses associated with selling our non-core businesses. Operating margin excluding the losses would have been 12.0% in 2017.

Twelve-month backlog for Space and Defense Controls at June 30, 2018 compared to July 1, 2017 increased due to higher orders for defense components, security and missile programs.

Induction Cristians

Industrial Systems											
	Three Months Ended						Nine Months Ended				
(dollars in millions)	June 30, 2018	July 1, 2017		ariance	% Varia	ance	June 30, 2018	July 1, 2017	\$ Variance	% e Vari	ance
Net sales	\$243	\$216	\$	27	13	%	\$692	\$618	\$ 74	12	%
Operating profit (loss)	\$24	\$22	\$	3	12	%	\$37	\$64	\$ (27	) (42	%)
Operating margin	10.0 %	610.1 %	ว				5.4 %	610.4 %	)		
Backlog							\$296	\$245	\$ 51	21	%

Industrial Systems' net sales increased in all our markets, except for our simulation and test market, in the third quarter and in the first three quarters of 2018 compared to the same periods of 2017. Stronger foreign currencies, primarily the Euro relative to the U.S. Dollar, increased sales \$6 million and \$22 million in the third quarter and first three quarters, respectively. Additionally, the recent acquisitions of Rotary Transfer Systems and Vues Brno s.r.o increased sales, primarily in our industrial automation market, \$10 million and \$22 million in the third quarter and first three quarters, respectively.

Excluding the currency effects on sales in the third quarter and in the first three quarters of 2018 compared to the same periods of 2017, sales increased in our industrial automation market \$11 million and \$24 million, respectively. The increases were primarily driven by our acquisitions, as well as the stronger macro economic growth. Sales also increased \$8 million and \$15 million, respectively, in our medical market driven by higher orders for our components and devices. In addition, sales increased \$8 million and \$14 million, respectively, in our energy market driven by increased shipments for energy generation and exploration products. Finally, sales decreased \$8 million and \$4 million, respectively, in our simulation and test market, due to the timing of revenue recognition.

In the second quarter of 2018, we decided to phase out our participation in the wind pitch control business over the remainder of our fiscal year. Through the second and third quarters of 2018, we incurred \$32 million of restructuring expense in Industrial Systems. Of the total expense, the charges consist of \$10 million of non-cash inventory reserves, \$12 million of non-cash charges for the impairment of intangible assets, \$2 million of non-cash charges, primarily for the impairment of long-lived assets, \$6 million for severance and \$2 million for other costs.

Operating margin was relatively flat in the third quarter of 2018 compared to the third quarter of 2017. Incremental margin from the higher sales was offset by higher operating expenses, including higher consulting and selling activities, a \$3 million contract adjustment and additional charges associated with exiting the wind pitch control business. Operating margin decreased in the first three quarters of 2018 compared to the first three quarters of 2017 due to charges associated with exiting the wind pitch control business. Excluding the effect of this expense, operating margin would have been 10.0% through the first three quarters of 2018, as higher operating expenses were partially offset by incremental margin from higher sales volumes.

The higher level of twelve-month backlog in Industrial Systems at June 30, 2018 compared to July 1, 2017 is due to higher orders from our recent acquisitions within our industrial automation market and for our industrial components products.

#### CONSOLIDATED AND SEGMENT OUTLOOK

			2018 vs. 2017			
(dollars in millions)	2018	2017	\$ %			
(donais in minoris)	2010	2017	Varianc∉ariance			
Net sales:						
Aircraft Controls	\$1,195	\$1,125	\$70 6	%		
Space and Defense Controls	577	529	48 9	%		
Industrial Systems	934	843	91 11	%		
	\$2,707	\$2,498	\$209 8	%		
Operating profit:						
Aircraft Controls	\$130	\$114	\$16 14	. %		
Space and Defense Controls	68	49	19 40	%		
Industrial Systems	63	88	(25) (2	8 %)		
	\$260	\$250	\$10 4	%		
Operating margin:						
Aircraft Controls	10.8 %	6 10.1 %	2			
Space and Defense Controls	11.8 %	6 9.2 %	2			
Industrial Systems	6.7 %	6 10.4 %	2			
	9.6 %	6 10.0 %	2			

2018 Outlook – We expect that all three segments will contribute to higher sales in 2018, driven primarily by industrial automation sales in Industrial Systems and military OEM sales in Aircraft Controls. We expect 2018 operating margin will decrease due to the restructuring expense in Industrial Systems. Operating margin excluding the effect of this expense will be 10.8%, as margin expansion will be driven by the absence of 2017's losses associated with divesting non-core businesses, as well as incremental margin from higher sales. We expect that the impact of the Tax Cuts and Jobs Act will result in an unusually high effective tax rate of 48% in 2018. This will result in a 32% decrease in net earnings attributable to common shareholders to \$97 million, and diluted earnings per share will range between \$2.57 and \$2.77 with a midpoint of \$2.67. Excluding the impacts from the restructuring charge and the special impacts from the Tax Act, we expect an effective tax rate of 26.8%, net earnings attributable to common shareholders of \$160 million and diluted earnings per share will range between \$4.32 and \$4.52, with a midpoint of \$4.42, an increase of 13% compared to 2017.

2018 Outlook for Aircraft Controls – We expect 2018 sales in Aircraft Controls will increase primarily due to higher military OEM sales, driven by the continued ramp up of the F-35 program and by higher sales volumes on various other legacy programs. Partially offsetting the increases is an expected sales decline of legacy Boeing OEM programs. We expect 2018 operating margin will increase compared to 2017. We expect that research and development costs will decrease \$16 million. However, we expect a negative sales mix, as sales on our mature commercial programs are replaced with sales growth on newer commercial programs.

2018 Outlook for Space and Defense Controls – We expect 2018 sales in Space and Defense Controls will increase due to sales growth from launch vehicles and satellite programs. Also, within our defense market, we expect higher security products and missile systems sales. We expect 2018 operating margin will increase, as the prior year's losses associated with divesting non-core businesses do not repeat.

2018 Outlook for Industrial Systems – We expect 2018 sales in Industrial Systems to increase across all of our major markets, led primarily by growth in our industrial automation products. We expect favorable currency adjustments and the recent acquisitions of Rotary Transfer Systems and VUES Brno s.r.o to contribute to the sales growth. We expect 2018 operating margin will decrease due to the wind restructuring expenses. Operating margin excluding this expense will decrease slightly to 10.2% as higher operating expenses are partially offset by the incremental margin from higher sales volumes.

FINANCIAL CONDITION	AND LIQUIDITY				
	Nine Months Ende	d			
(dollars in millions)	June 300 Jun	%			
(dollars in millions)	20182017 Varian	ce Vari	e Variance		
Net cash provided (used) by:					
Operating activities	\$46 \$169 \$ (123	) (73	%)		
Investing activities	(122)(83)(39	) 48	%		
Financing activities	(137)(68)(69	) 102	%		

Our available borrowing capacity and our cash flow from operations provide us with the financial resources needed to run our operations, reinvest in our business and make strategic acquisitions.

At June 30, 2018, our cash balances were \$157 million, which is primarily held outside of the U.S. Cash flow from our U.S. operations, together with borrowings on our credit facility, fund on-going activities, debt service requirements and future growth investments. Due to provisions in the Tax Cuts and Jobs Act, we plan to continue to repatriate substantial amounts of our existing offshore cash and future earnings back to the U.S. Through the first three quarters of 2018, we have repatriated \$144 million.

Operating activities

Net cash provided by operating activities decreased through the first three quarters of 2018 compared to the same period of 2017. Cash used by pension and retirement liabilities increased \$104 million due to incremental pension contributions in the second and third quarters of 2018. Also, cash provided by inventory decreased \$32 million, as higher volumes on new programs in Aircraft Controls and delays on shipments in Space and Defense Controls resulted in more inventory.

Investing activities

Net cash used by investing activities in the first three quarters of 2018 included \$71 million for capital expenditures and \$48 million for the acquisitions in our Industrial Systems and Space and Defense segments, while net cash used by investing activities in 2017 included \$45 million for capital expenditures and \$41 million for the acquisition in Industrial Systems.

We expect our 2018 capital expenditures to be approximately \$95 million, due to facilities investments supporting the increased production of the F-35 program, as well as engine propulsion testing. Financing activities

Net cash used by financing activities in the first three quarters of both 2018 and 2017 include net payments on our

credit facility. Also, we expect to pay approximately \$18 million of cash dividends in 2018.

Off Balance Sheet Arrangements

We do not have any material off balance sheet arrangements that have or are reasonably likely to have a material future effect on our results of operations or financial condition.

Contractual Obligations and Commercial Commitments

Our contractual obligations and commercial commitments have not changed materially from the disclosures in our 2017 Annual Report on Form 10-K, with the exception of tax payments required as a result of the Tax Cuts and Jobs Act of 2017 and accelerated pension contributions into our 2017 pension plan year. See Notes 10 and 12 of the Consolidated Condensed Financial Statements included in Item 1, Financial Statements of this report for the impact.

### CAPITAL STRUCTURE AND RESOURCES

We maintain bank credit facilities to fund our short and long-term capital requirements, including for acquisitions. From time to time, we also sell debt and equity securities to fund acquisitions or take advantage of favorable market conditions.

Our U.S. revolving credit facility matures on June 28, 2021. The U.S. revolving credit facility has a capacity of \$1.1 billion and also provides an expansion option, which permits us to request an increase of up to \$200 million to the credit facility upon satisfaction of certain conditions. The U.S. revolving credit facility had an outstanding balance of \$430 million at June 30, 2018. The weighted-average interest rate on all of the outstanding credit facility borrowings was 3.69% and is based on LIBOR plus the applicable margin, which was 1.63% at June 30, 2018. The credit facility is secured by substantially all of our U.S. assets.

The U.S. revolving credit facility contains various covenants. The covenant for minimum interest coverage ratio, defined as the ratio of EBITDA to interest expense for the most recent four quarters, is 3.0. The covenant for the maximum leverage ratio, defined as the ratio of net debt, including letters of credit, to EBITDA for the most recent four quarters, is 3.5. We are in compliance with all covenants. EBITDA is defined in the loan agreement as (i) the sum of net income, interest expense, income taxes, depreciation expense, amortization expense, other non-cash items reducing consolidated net income and non-cash equity-based compensation expenses minus (ii) other non-cash items increasing consolidated net income.

We are generally not required to obtain the consent of lenders of the U.S. revolving credit facility before raising significant additional debt financing; however, certain limitations and conditions may apply that would require consent to be obtained. In recent years, we have demonstrated our ability to secure consents to access debt markets. We have also been successful in accessing equity markets from time to time. We believe that we will be able to obtain additional debt or equity financing as needed.

At June 30, 2018, we had \$638 million of unused capacity, including \$626 million from the U.S. revolving credit facility after considering standby letters of credit. However, our leverage ratio covenant limits our total borrowing capacity to \$453 million as of June 30, 2018.

We have \$300 million aggregate principal amount of 5.25% senior notes due December 1, 2022 with interest paid semiannually on June 1 and December 1 of each year. The senior notes are unsecured obligations, guaranteed on a senior unsecured basis by certain subsidiaries and contain normal incurrence-based covenants and limitations such as the ability to incur additional indebtedness, pay dividends, make other restricted payments and investments, create liens and certain corporate acts such as mergers and consolidations.

We have a trade receivables securitization facility (the "Securitization Program"), which matures on October 23, 2019. The Securitization Program provides up to \$130 million of borrowing capacity and lowers our cost to borrow funds as compared to the U.S. revolving credit facility. Under the Securitization Program, we sell certain trade receivables and related rights to an affiliate, which in turn sells an undivided variable percentage ownership interest in the trade receivables to a financial institution, while maintaining a subordinated interest in a portion of the pool of trade receivables. We had an outstanding balance of \$130 million at June 30, 2018. The Securitization Program has a minimum borrowing requirement, which was \$104 million at June 30, 2018. Interest on the secured borrowings under the Securitization Program was 2.92% at June 30, 2018 and is based on 30-day LIBOR plus an applicable margin. Net debt to capitalization was 36% at June 30, 2018 and 33% at September 30, 2017. The increase in net debt to capitalization is principally due to the use of cash for incremental pension contributions to fund our primary U.S. defined benefit pension plan.

We believe that our cash on hand, cash flows from operations and available borrowings under short and long-term arrangements will continue to be sufficient to meet our operating needs.

During the second quarter of 2018, the Board of Directors declared a \$0.25 per share quarterly dividend payable on issued and outstanding shares of our Class A and Class B common stock on June 1, 2018 to shareholders of record at the close of business on May 15, 2018.

The Board of Directors has authorized a share repurchase program. This program has been amended from time to time to authorize additional repurchases that includes both Class A and Class B common stock, and allows us to buy up to

an aggregate 13 million common shares. Under this program, we have purchased approximately 9.7 million shares for \$650 million as of June 30, 2018.

### ECONOMIC CONDITIONS AND MARKET TRENDS

We operate within the aerospace and defense and industrial markets. Our aerospace and defense markets are affected by market conditions and program funding levels, while our industrial markets are influenced by general capital investment trends and economic conditions. A common factor throughout our markets is the continuing demand for technologically advanced products.

#### Aerospace and Defense

Approximately two-thirds of our 2017 sales were generated in aerospace and defense markets. Within aerospace and defense, we serve three end markets: defense, commercial aircraft and space.

The defense market is dependent on military spending for development and production programs. Aircraft production programs are typically long-term in nature, offering predictability as to capacity needs and future revenues. We maintain positions on numerous high priority programs, including the Lockheed Martin F-35 Joint Strike Fighter, FA-18E/F Super Hornet and V-22 Osprey. The large installed base of our products leads to attractive aftermarket sales and service opportunities. The tactical and strategic missile, missile defense and defense controls markets are dependent on many of the same market conditions as military aircraft, including overall military spending and program funding levels. Our security and surveillance product line is dependent on government funding at federal and local levels, as well as private sector demand.

Reductions in the U.S. Department of Defense's mandatory and discretionary budgeted spending, which became effective on March 1, 2013, resulting from the Budget Control Act of 2011, has had ramifications for the domestic aerospace and defense market. As originally passed, the Budget Control Act provided that, in addition to an initial significant reduction in future domestic defense spending, further automatic cuts to defense spending authorization (which is generally referred to as sequestration) of approximately \$500 billion through the Federal Government's 2021 fiscal year would be triggered by the failure of Congress to produce a deficit reduction bill. The sequestration spending cuts were intended to be uniform by category for programs, projects and activities within accounts. The Bipartisan Budget Act of 2013 and the Bipartisan Budget Act of 2015 provided stability and modest growth in Department of Defense spending through 2017. However, future budgets beyond 2017 are uncertain with respect to the overall levels of defense spending. Currently, we expect approximately \$750 million of U.S. defense sales in 2018. The commercial aircraft market is dependent on a number of factors, including global demand for air travel, which generally follows underlying economic growth. As such, the commercial aircraft market has historically exhibited cyclical swings which tend to track the overall economy. In recent years, the development of new, more fuel-efficient commercial air transports has helped drive increased demand in the commercial aircraft market, as airlines replace older, less fuel-efficient aircraft with newer models in an effort to reduce operating costs. The aftermarket is driven by usage of the existing aircraft fleet and the age of the installed fleet, and is impacted by fleet re-sizing programs for passenger and cargo aircraft. Changes in aircraft utilization rates affect the need for maintenance and spare parts impacting aftermarket sales. Boeing and Airbus have historically adjusted production in line with air traffic volume. Demand for our commercial aircraft products is in large part dependent on new aircraft production, which is increasing as Boeing and Airbus work to fulfill large backlogs of unfilled orders.

The commercial space market is comprised of large satellite customers, traditionally communications companies. Trends for this market, as well as for commercial launch vehicles, follow demand for increased capacity. This, in turn tends to track with underlying demand for increased consumption of telecommunication services, satellite replacement and global navigation needs. The space market is also partially dependent on the governmental-authorized levels of funding for satellite communications, as well as investment for commercial and exploration activities.

## Industrial

Approximately one-third of our 2017 sales were generated in industrial markets. Within industrial, we serve three end markets: industrial automation, energy and medical.

The industrial automation market we serve is influenced by several factors including capital investment, product innovation, economic growth, cost-reduction efforts and technology upgrades. We experience challenges from the need to react to the demands of our customers, who are in large part sensitive to international and domestic economic conditions.

The energy market we serve is affected by changing oil and natural gas prices, global urbanization, the resulting change in supply and demand for global energy and the political climate and corresponding public support for investments in renewable energy generation capacity. Historically, drivers for global growth include investments in power generation infrastructure, including renewable energy, and exploration in search of new oil and gas resources. However, the significant decline in the price of crude oil has reduced investment in exploration activities. This reduced investment has directly affected our energy business. Currently, we expect approximately \$39 million of oil exploration-related sales in 2018, down from approximately \$100 million in 2014.

The medical market we serve is influenced by economic conditions, regulatory environments, hospital and outpatient clinic spending on equipment, population demographics, medical advances, patient demands and the need for precision control components and systems. Advances in medical technology and medical treatments have had the effect of extending average life spans, in turn resulting in greater need for medical services. These same technology and treatment advances also drive increased demand from the general population as a means to improve quality of life. Access to medical insurance, whether through government funded health care plans or private insurance, also affects the demand for medical services.

### Foreign Currencies

We are affected by the movement of foreign currencies compared to the U.S. dollar, particularly in Aircraft Controls and Industrial Systems. About one-quarter of our 2017 sales were denominated in foreign currencies. During the first nine months of 2018, average foreign currency rates generally strengthened against the U.S. dollar compared to 2017. The translation of the results of our foreign subsidiaries into U.S. dollars increased sales by \$31 million compared to the same period one year ago.

### Cautionary Statement

Information included or incorporated by reference in this report that does not consist of historical facts, including statements accompanied by or containing words such as "may," "will," "should," "believes," "expects," "expected," "intends," "projects," "approximate," "estimates," "predicts," "potential," "outlook," "forecast," "anticipates," "presume" and "assume," forward-looking statements. Such forward-looking statements are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. These statements are not guarantees of future performance and are subject to several factors, risks and uncertainties, the impact or occurrence of which could cause actual results to differ materially from the expected results described in the forward-looking statements. These important factors, risks and uncertainties include:

the markets we serve are cyclical and sensitive to domestic and foreign economic conditions and events, which may cause our operating results to fluctuate;

• we operate in highly competitive markets with competitors who may have greater resources than we possess;

we depend heavily on government contracts that may not be fully funded or may be terminated, and the failure to receive funding or the termination of one or more of these contracts could reduce our sales and increase our costs; we make estimates in accounting for long-term contracts, and changes in these estimates may have significant impacts on our earnings;

we enter into fixed-price contracts, which could subject us to losses if we have cost overruns;

we may not realize the full amounts reflected in our backlog as revenue, which could adversely affect our future revenue and growth prospects;

if our subcontractors or suppliers fail to perform their contractual obligations, our prime contract performance and our ability to obtain future business could be materially and adversely impacted;

contracting on government programs is subject to significant regulation, including rules related to bidding, billing and accounting kickbacks and false claims, and any non-compliance could subject us to fines and penalties or possible debarment;

the loss of The Boeing Company as a customer or a significant reduction in sales to The Boeing Company could adversely impact our operating results;

our new product research and development efforts may not be successful which could reduce our sales and earnings; our inability to adequately enforce and protect our intellectual property or defend against assertions of infringement could prevent or restrict our ability to compete;

our business operations may be adversely affected by information systems interruptions, intrusions or new software implementations;

our indebtedness and restrictive covenants under our credit facilities could limit our operational and financial flexibility;

significant changes in discount rates, rates of return on pension assets, mortality tables and other factors could adversely affect our earnings and equity and increase our pension funding requirements;

a write-off of all or part of our goodwill or other intangible assets could adversely affect our operating results and net worth;

our sales and earnings may be affected if we cannot identify, acquire or integrate strategic acquisitions, or if we engage in divesting activities;

our operations in foreign countries expose us to political and currency risks and adverse changes in local legal and regulatory environments;

unforeseen exposure to additional income tax liabilities may affect our operating results;

government regulations could limit our ability to sell our products outside the United States and otherwise adversely affect our business;

governmental regulations and customer demands related to conflict minerals may adversely impact our operating results;

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the failure or misuse of our products may damage our reputation, necessitate a product recall or result in claims against us that exceed our insurance coverage, thereby requiring us to pay significant damages;

future terror attacks, war, natural disasters or other catastrophic events beyond our control could negatively impact our business;

our operations are subject to environmental laws, and complying with those laws may cause us to incur significant costs; and

we are involved in various legal proceedings, the outcome of which may be unfavorable to us.

These factors are not exhaustive. New factors, risks and uncertainties may emerge from time to time that may affect the forward-looking statements made herein. Given these factors, risks and uncertainties, investors should not place undue reliance on forward-looking statements as predictive of future results. We disclaim any obligation to update the forward-looking statements made in this report.

Item 3. Quantitative and Qualitative Disclosures about Market Risk.

Refer to the Company's Annual Report on Form 10-K for the year ended September 30, 2017 for a complete discussion of our market risk. There have been no material changes in the current year regarding this market risk information.

Item 4. Controls and Procedures.

Disclosure Controls and Procedures. We carried out an evaluation, under the supervision and with the participation of our management, including the Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures as defined in Exchange Act Rules 13a-15(e) and 15d-15(e). Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that these disclosure controls and procedures are effective as of the end of the period covered by this report, to ensure that

(a) information required to be disclosed in reports filed or submitted under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms, and that such information is accumulated and communicated to management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosures.

Changes in Internal Control over Financial Reporting. There have been no changes during the most recent fiscal(b)quarter that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

#### PART II OTHER INFORMATION

- Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.
- (c) The following table summarizes our purchases of our common stock for the quarter ended June 30, 2018.

Period	(a) Total Number of Shares Purchased (1)(2)	(b) Average Price Paid Per Share	(c) Total number of Shares Purchased as Part of Publicly Announced Plans or Programs (3)	(d) Maximum Number (or Approx. Dollar Value) of Shares that May Yet Be Purchased Under Plans or Programs (3)
April 1, 2018 - April 30, 2018	_	\$ —	_	3,349,719
May 1, 2018 - May 31, 2018	1,110	82.93		3,349,719
June 1, 2018 - June 30, 2018	6,774	78.24	_	3,349,719
Total	7,884	\$ 78.90		3,349,719

Reflects purchases by the Moog Inc. Stock Employee Compensation Trust Agreement ("SECT") of shares of Class (1)B common stock from the Moog Inc. Retirement Savings Plan ("RSP") at average prices as follows: 6,774 shares at \$78.24 per share during June.

In connection with the exercise of equity-based compensation awards, we accept delivery of shares to pay for the (2) exercise price and withhold shares for tax withholding obligations. In May, we accepted delivery of 1,110 shares at \$82.93 per share, in connection with the exercise of equity-based awards.

The Board of Directors has authorized a share repurchase program. This program has been amended from time to (3) time to authorize additional repurchases up to an aggregate 13 million common shares. The program permits the purchase of shares of Class A or Class B common stock in open market or privately negotiated transactions at the discretion of management.

Item 5. Other Information.

On July 26, 2018, the Board of Directors of the Company approved the First Amendment to the Moog Inc. Defined Contribution Supplemental Executive Retirement Plan. The amendment defines provisions about change of control and contribution payments to be made in the event of a change of control and an involuntary termination of employment. See Exhibit 10.2 at Item 6, Exhibits of Part II Other Information of this report.

On July 26, 2018, the Board of Directors of the Company approved the First Amendment to the Moog Inc. Management Short Term Incentive Plan. The amendment allows for a discretionary bonus to be awarded for 2018, with an appropriate subtraction to any 2019 bonus, primarily to account for impacts on the financial performance of the Company in 2018 resulting from the Tax Cuts and Jobs Act of 2017. See Exhibit 10.3 at Item 6, Exhibits of Part II Other Information of this report.

Item 6. Exhibits.

(a)Exhibits

Rdstated By-laws of Moog Inc., as amended, effective May 8, 2018.

Andendment No. 1 to Moog Inc. Stock Employee Compensation Trust, effective May 8, 2018.

First Amendment to the Moog Inc. Defined Contribution Supplemental Executive Retirement Plan, effective July 26, 2018.

Fûst Amendment to the Moog Inc. Management Short Term Incentive Plan, effective July 26, 2018.

Certification of Chief Executive Officer pursuant to Exchange Act Rule 13a-14(a) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

Certification of Chief Financial Officer pursuant to Exchange Act Rule 13a-14(a) as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.

Certification pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of  $\frac{32002}{2002}$ .

Interactive Date files (submitted electronically herewith)

(101.INS) XBRL Instance Document

(101.SCH) XBRL Taxonomy Extension Schema Document

(101.CAL)XBRL Taxonomy Extension Calculation Linkbase Document

(101.DEF) XBRL Taxonomy Extension Definition Linkbase Document

(101.LAB)XBRL Taxonomy Extension Label Linkbase Document

(101.PRE) XBRL Taxonomy Extension Presentation Linkbase Document

In accordance with Rule 406T of Regulation S-T, the XBRL related information in Exhibit 101 to this Quarterly Report on Form 10-Q shall not be deemed to be "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liability of that section and shall not be part of any registration or other document filed under the Securities Act or the Exchange Act, except as shall be expressly set forth by specific reference in such filing.

#### 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.

Moog Inc.

(Registrant)

- Date: July 27, 2018 By/s/ John R. Scannell John R. Scannell Chairman Chief Executive Officer (Principal Executive Officer)
- Date: July 27, 2018 By/s/ Donald R. Fishback Donald R. Fishback Vice President Chief Financial Officer (Principal Financial Officer)
- Date: July 27, 2018 By/s/ Jennifer Walter Jennifer Walter Vice President - Finance Controller (Principal Accounting Officer)