

AMERICAN AXLE & MANUFACTURING HOLDINGS INC
Form 10-Q
July 28, 2017

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

FORM 10-Q

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

For the quarterly period ended June 30, 2017

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: 1-14303

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
(Exact Name of Registrant as Specified in Its Charter)

Delaware 38-3161171
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification No.)

One Dauch Drive, Detroit, Michigan 48211-1198
(Address of Principal Executive Offices) (Zip Code)
(313) 758-2000
(Registrant's Telephone Number, Including Area Code)

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

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

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

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company
Emerging growth company (Do not check if a smaller reporting company)

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

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

As of July 26, 2017, the latest practicable date, the number of shares of the registrant's Common Stock, par value \$0.01 per share, outstanding was 111,290,072 shares.

Internet Website Access to Reports

The website for American Axle & Manufacturing Holdings, Inc. is www.aam.com. Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports filed or furnished pursuant to Section 13 or 15(d) of the Exchange Act are available free of charge through our website as soon as reasonably practicable after they are electronically filed with, or furnished to, the Securities and Exchange Commission (SEC). The SEC also maintains a website at www.sec.gov that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
 FORM 10-Q
 FOR THE QUARTER ENDED JUNE 30, 2017
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FORWARD-LOOKING STATEMENTS

In this Quarterly Report on Form 10-Q (Quarterly Report), we make statements concerning our expectations, beliefs, plans, objectives, goals, strategies, and future events or performance. Such statements are “forward-looking” statements within the meaning of the Private Securities Litigation Reform Act of 1995 and relate to trends and events that may affect our future financial position and operating results. The terms such as “will,” “may,” “could,” “would,” “plan,” “believe,” “expect,” “anticipate,” “intend,” “project,” “target,” and similar words or expressions, as well as statements in future tense, are intended to identify forward-looking statements.

Forward-looking statements should not be read as a guarantee of future performance or results, and will not necessarily be accurate indications of the times at, or by, which such performance or results will be achieved. Forward-looking statements are based on information available at the time those statements are made and/or management’s good faith belief as of that time with respect to future events and are subject to risks and may differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

- reduced purchases of our products by General Motors Company (GM), FCA US LLC (FCA), or other customers;
- reduced demand for our customers' products (particularly light trucks and sport utility vehicles (SUVs) produced by GM and FCA);
- our ability to develop and produce new products that reflect market demand;
- lower-than-anticipated market acceptance of new or existing products;
- our ability to respond to changes in technology, increased competition or pricing pressures;
- our ability to attract new customers and programs for new products;
- our ability to successfully integrate the business and information systems of Metaldyne Performance Group, Inc. (MPG) and to realize the anticipated benefits of the merger;
- risks inherent in our global operations (including adverse changes in trade agreements, tariffs, immigration policies, political stability, taxes and other law changes, potential disruptions of production and supply, and currency rate fluctuations);
- negative or unexpected tax consequences;
- risks related to disruptions to ongoing business operations as a result of the merger with MPG, including disruptions to management time;
- liabilities arising from warranty claims, product recall or field actions, product liability and legal proceedings to which we are or may become a party, or the impact of product recall or field actions on our customers;
- our ability to achieve the level of cost reductions required to sustain global cost competitiveness;
 - supply shortages or price increases in raw materials, utilities or other operating supplies for us or our customers as a result of natural disasters or otherwise;
- our ability or our customers' and suppliers' ability to successfully launch new product programs on a timely basis;
- our ability to realize the expected revenues from our new and incremental business backlog;
- risks related to a failure of our information technology systems and networks, and risks associated with current and emerging technology threats and damage from computer viruses, unauthorized access, cyber attack and other similar disruptions;
- global economic conditions;
- a significant disruption in operations at one of our key manufacturing facilities;
- our ability to maintain satisfactory labor relations and avoid work stoppages;
- our suppliers', our customers' and their suppliers' ability to maintain satisfactory labor relations and avoid work stoppages;
- price volatility in, or reduced availability of, fuel;
- potential liabilities or litigation relating to, or assumed in, the MPG merger;
-

potential adverse reactions or changes to business relationships resulting from the completion of the merger with MPG;

- our ability to protect our intellectual property and successfully defend against assertions made against us;
- our ability to attract and retain key associates;
- availability of financing for working capital, capital expenditures, research and development (R&D) or other general corporate purposes including acquisitions, as well as our ability to comply with financial covenants;
- our customers' and suppliers' availability of financing for working capital, capital expenditures, R&D or other general corporate purposes;
- changes in liabilities arising from pension and other postretirement benefit obligations;
- risks of noncompliance with environmental laws and regulations or risks of environmental issues that could result in unforeseen costs at our facilities or reputational damage;
- adverse changes in laws, government regulations or market conditions affecting our products or our customers' products (such as the Corporate Average Fuel Economy (CAFE) regulations);
- our ability or our customers' and suppliers' ability to comply with the Dodd-Frank Act and other regulatory requirements and the potential costs of such compliance; and
- other unanticipated events and conditions that may hinder our ability to compete.

It is not possible to foresee or identify all such factors and we make no commitment to update any forward-looking statement or to disclose any facts, events or circumstances after the date hereof that may affect the accuracy of any forward-looking statement.

PART I. FINANCIAL INFORMATION

Item 1. Financial Statements

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
CONDENSED CONSOLIDATED STATEMENTS OF INCOME
(Unaudited)

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2017	2016	2017	2016
	(in millions, except per share data)			
Net sales	\$1,757.8	\$1,025.4	\$2,807.7	\$1,994.6
Cost of goods sold	1,441.4	834.0	2,280.6	1,629.2
Gross profit	316.4	191.4	527.1	365.4
Selling, general and administrative expenses	105.6	78.7	186.8	153.2
Amortization of intangible assets	24.8	1.2	26.4	2.3
Restructuring and acquisition-related costs	51.7	—	67.7	—
Operating income	134.3	111.5	246.2	209.9
Interest expense	(56.9)	(23.4)	(82.4)	(47.0)
Investment income	0.8	1.5	1.4	2.1
Other income (expense)				
Debt refinancing and redemption costs	(2.7)	—	(2.7)	—
Other income (expense), net	(6.8)	2.1	(7.9)	3.1
Income before income taxes	68.7	91.7	154.6	168.1
Income tax expense	2.4	20.7	9.9	36.0
Net income	\$66.3	\$71.0	\$144.7	\$132.1
Net income attributable to noncontrolling interests	(0.1)	—	(0.1)	—
Net income attributable to AAM	\$66.2	\$71.0	\$144.6	\$132.1
Basic earnings per share	\$0.59	\$0.91	\$1.52	\$1.69
Diluted earnings per share	\$0.59	\$0.90	\$1.51	\$1.68

See accompanying notes to condensed consolidated financial statements.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
 CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME
 (Unaudited)

	Three Months Ended June 30, 2017		Six Months Ended June 30, 2016	
	2017	2016	2017	2016
	(in millions)			
Net income	\$66.3	\$71.0	\$144.7	\$132.1
Other comprehensive income (loss)				
Defined benefit plans, net of tax ^(a)	0.9	0.5	0.6	4.7
Foreign currency translation adjustments	24.6	0.8	36.5	15.8
Changes in cash flow hedges, net of tax ^(b)	4.9	(5.7)	20.4	(2.3)
Other comprehensive income (loss)	30.4	(4.4)	57.5	18.2
Comprehensive income	\$96.7	\$66.6	\$202.2	\$150.3
Net income attributable to noncontrolling interests	(0.1)	—	(0.1)	—
Comprehensive income attributable to AAM	\$96.6	\$66.6	\$202.1	\$150.3

(a) Amounts are net of tax of \$(0.4) million and \$(0.2) million for the three and six months ended June 30, 2017, and \$(0.4) million and \$(2.7) million for the three and six months ended June 30, 2016, respectively.

(b) Amounts are net of tax of \$0.7 million for the three and six months ended June 30, 2017.

See accompanying notes to condensed consolidated financial statements.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
CONDENSED CONSOLIDATED BALANCE SHEETS

	June 30, 2017 (Unaudited)	December 31, 2016
	(in millions)	
Assets		
Current assets		
Cash and cash equivalents	\$490.6	\$ 481.2
Accounts receivable, net	1,126.1	560.0
Inventories, net	384.5	182.3
Prepaid expenses and other	142.9	75.8
Total current assets	2,144.1	1,299.3
Property, plant and equipment, net	2,209.3	1,093.7
Deferred income taxes	44.7	369.4
Goodwill	1,610.8	154.0
Intangible assets, net	1,281.1	28.5
GM postretirement cost sharing asset	233.6	236.1
Other assets and deferred charges	366.2	242.9
Total assets	\$7,889.8	\$ 3,423.9
Liabilities and Stockholders' Equity		
Current liabilities		
Current portion of long-term debt	\$5.2	\$ 3.3
Accounts payable	840.6	382.3
Accrued compensation and benefits	194.1	139.3
Deferred revenue	27.5	24.6
Accrued expenses and other	159.8	102.0
Total current liabilities	1,227.2	651.5
Long-term debt, net	4,173.6	1,400.9
Deferred revenue	78.4	70.8
Deferred income taxes	264.8	15.0
Postretirement benefits and other long-term liabilities	848.7	779.9
Total liabilities	6,592.7	2,918.1
Stockholders' equity		
Common stock, par value \$0.01 per share; 150.0 million shares authorized; 118.2 million shares issued as of June 30, 2017 and 83.0 million shares issued as of December 31, 2016	1.2	0.9
Paid-in capital	1,252.2	660.1
Retained earnings	570.1	425.5
Treasury stock at cost, 6.9 million shares as of June 30, 2017 and 6.5 million shares as of December 31, 2016	(198.0)	(191.1)
Accumulated other comprehensive loss		
Defined benefit plans, net of tax	(242.9)	(243.5)
Foreign currency translation adjustments	(85.9)	(122.4)
Unrecognized loss on cash flow hedges, net of tax	(3.3)	(23.7)

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Total AAM stockholders' equity	1,293.4	505.8
Noncontrolling interests in subsidiaries	3.7	—
Total stockholders' equity	1,297.1	505.8
Total liabilities and stockholders' equity	\$7,889.8	\$ 3,423.9

See accompanying notes to condensed consolidated financial statements.

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AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
 CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS
 (Unaudited)

	Six Months Ended June 30, 2017 2016 (in millions)	
Operating activities		
Net income	\$144.7	\$132.1
Adjustments to reconcile net income to net cash provided by operating activities		
Depreciation and amortization	180.8	100.5
Deferred income taxes	(24.6)	20.9
Stock-based compensation	30.9	10.5
Pensions and other postretirement benefits, net of contributions	(0.5)	(2.4)
Loss on disposal of property, plant and equipment, net	1.1	1.1
Undistributed earnings in affiliate	(1.7)	(1.4)
Debt refinancing and redemption costs	2.7	—
Changes in operating assets and liabilities, net of amounts acquired		
Accounts receivable	(139.8)	(100.6)
Inventories	6.2	6.3
Accounts payable and accrued expenses	45.0	74.8
Deferred revenue	8.4	(7.5)
Other assets and liabilities	(40.0)	(50.8)
Net cash provided by operating activities	213.2	183.5
Investing activities		
Purchases of property, plant and equipment	(138.6)	(105.7)
Proceeds from sale of property, plant and equipment	1.5	0.6
Proceeds from government grants	—	2.8
Purchase buyouts of leased equipment	(8.4)	—
Final distribution of Reserve Yield Plus Fund	—	1.0
Proceeds from sale of business, net	5.9	—
Acquisition of business, net of cash acquired	(895.5)	—
Net cash used in investing activities	(1,035.1)	(101.3)
Financing activities		
Payments of long-term debt and capital lease obligations	(1,937.5)	(3.8)
Proceeds from issuance of long-term debt	2,857.9	29.6
Debt issuance costs	(90.5)	—
Purchase of treasury stock	(6.9)	(5.0)
Employee stock option exercises	0.9	0.1
Net cash provided by financing activities	823.9	20.9
Effect of exchange rate changes on cash	7.4	2.8
Net increase in cash and cash equivalents	9.4	105.9
Cash and cash equivalents at beginning of period	481.2	282.5

Cash and cash equivalents at end of period	\$490.6	\$388.4
Supplemental cash flow information		
Interest paid	\$79.8	\$43.9
Income taxes paid, net of refunds	\$16.7	\$38.1
Non-cash investing activities: AAM common shares issued for acquisition of MPG	\$576.7	\$—

See accompanying notes to condensed consolidated financial statements.

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AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS
June 30, 2017
(Unaudited)

1. ORGANIZATION AND BASIS OF PRESENTATION

Organization On April 6, 2017, Alpha SPV I, Inc., a wholly-owned subsidiary of American Axle & Manufacturing Holdings, Inc. (Holdings), merged with and into Metaldyne Performance Group, Inc. (MPG), with MPG as the surviving corporation in the merger. Upon completion of the merger, MPG became a wholly-owned subsidiary of Holdings. As a result, we are now a global Tier I supplier to the automotive, commercial and industrial markets. We design, engineer, validate and manufacture driveline, metal forming, powertrain and casting products, employing over 25,000 associates, operating at more than 90 facilities in 17 countries, to support our customers on global and regional platforms with a continued focus on delivering operational excellence, technology leadership and quality.

Basis of Presentation We have prepared the accompanying interim condensed consolidated financial statements in accordance with the instructions to Form 10-Q under the Securities Exchange Act of 1934. These condensed consolidated financial statements are unaudited but include all normal recurring adjustments, which we consider necessary for a fair presentation of the information set forth herein. Results of operations for the periods presented are not necessarily indicative of the results for the full fiscal year.

The balance sheet at December 31, 2016 presented herein has been derived from the audited consolidated financial statements at that date but does not include all of the information and footnotes required by accounting principles generally accepted in the United States of America (GAAP) for complete consolidated financial statements.

In order to prepare the accompanying interim condensed consolidated financial statements, we are required to make estimates and assumptions that affect the reported amounts and disclosures in our interim condensed consolidated financial statements. Actual results could differ from those estimates.

For further information, refer to the audited consolidated financial statements and notes included in our Annual Report on Form 10-K for the year ended December 31, 2016.

Change in Accounting Principle Effective April 1, 2017, we changed our method of accounting for indirect inventory from capitalizing and recording as expense when the inventory was consumed to now expensing indirect inventory at the time of purchase. We believe that expensing indirect inventory at the time of purchase is preferable as the change will (1) align purchase patterns of indirect inventory with our current operational strategies, (2) reduce the administrative burden associated with recordkeeping for indirect inventory, and (3) result in a uniform accounting policy across our global operations as MPG's accounting method has been to expense indirect inventory upon purchase.

Based on the guidance in Accounting Standards Codification (ASC) 250 Accounting Changes and Error Corrections we applied this change in accounting principle retrospectively. As a result of the change, we have decreased previously reported inventories, net by \$37.2 million, decreased previously reported retained earnings by \$24.2 million and increased previously reported deferred tax assets by \$13.0 million as of January 1, 2016 and December 31, 2016. The cumulative impact of the change in accounting principle from January 1, 2016 to March 31, 2017, which covers the periods in which we would be required to retrospectively revise our Statements of Income and Balance Sheets, is an increase to income of \$2.4 million, net of tax. We have determined that the quarterly impact of this adjustment would not be material in any required prior period nor is the impact of recording the cumulative impact of \$2.4 million, net of tax material to the current period. As such, we recorded the \$2.4 million, net of tax adjustment

related to prior periods in the second quarter of 2017. The impact of this \$2.4 million, net of tax adjustment to income resulted in an increase in basic and diluted earnings per share of \$0.02 per share for the three months ended June 30, 2017 and \$0.03 per share for the six months ended June 30, 2017, respectively. The impact on current period income for the quarter ended June 30, 2017 was immaterial in comparison to accounting for indirect inventory under our historical accounting policy. See Note 5 - Inventories for further discussion.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Effect of New Accounting Standards

Accounting Standards Update 2017-07

On March 10, 2017, the Financial Accounting Standards Board (FASB) issued Accounting Standards Update (ASU) 2017-07 - Compensation - Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost. The amendments in this update require that an employer disaggregate the service cost component from the other components of defined benefit pension cost and postretirement benefit cost (net benefit cost). The amendments also provide explicit guidance on how to present the service cost component and the other components of net benefit cost in the income statement and allow only the service cost component of net benefit cost to be eligible for capitalization. This guidance becomes effective at the beginning of our 2018 fiscal year, however early adoption is permitted. The guidance requires a retrospective transition method for the income statement classification of the net benefit cost components and a prospective transition method for the capitalization of the service cost component in assets. We are currently assessing the impact that this standard will have on our consolidated financial statements.

Accounting Standards Update 2017-04

On January 26, 2017, the FASB issued ASU 2017-04 - Intangibles - Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment. The amendments in this update modify the concept of impairment from the condition that exists when the carrying amount of goodwill exceeds its implied fair value to the condition that exists when the carrying amount of a reporting unit exceeds its fair value. An entity no longer will determine goodwill impairment by calculating the implied fair value of goodwill by assigning the fair value of a reporting unit to all of its assets and liabilities as if that reporting unit had been acquired in a business combination, or what is referred to under existing guidance as "Step 2." Instead, under the amendments in this update, an entity should perform its annual, or interim, goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount. An entity should recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value; however, the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. Additionally, an entity should consider income tax effects from any tax deductible goodwill on the carrying amount of the reporting unit when measuring the goodwill impairment loss, if applicable. This guidance becomes effective at the beginning of our 2020 fiscal year, however early adoption is permitted. The guidance requires a prospective transition method. We are currently assessing the impact that this standard will have on our consolidated financial statements.

Accounting Standards Update 2016-16

On October 24, 2016, the FASB issued ASU 2016-16 - Income Taxes (Topic 740): Intra-Entity Transfers of Assets Other Than Inventory. Existing income tax guidance prohibits the recognition of current and deferred income taxes for an intra-entity asset transfer until the asset has been sold to an outside party. This existing guidance is deemed an exception to the principle of comprehensive recognition of current and deferred income taxes under GAAP. Due to the limited authoritative guidance about this exception, diversity in practice exists. ASU 2016-16 eliminates this exception for intra-entity transfers of assets other than inventory and requires that entities recognize the income tax consequences when the transfers occur. This guidance becomes effective at the beginning of our 2018 fiscal year, however early adoption is permitted. The guidance requires a modified retrospective transition method. We are currently assessing the impact that this standard will have on our consolidated financial statements.

Accounting Standards Update 2016-02

On February 25, 2016, the FASB issued ASU 2016-02 - Leases (Topic 842), which supersedes the existing lease accounting guidance and establishes new criteria for recognizing lease assets and liabilities. The most significant impact of the update, to AAM, is that a lessee will be required to recognize a "right-of-use" asset and lease liability for operating lease agreements that were not previously included on the balance sheet under the existing lease guidance. A lessee will be permitted to make a policy election, excluding recognition of the right-of-use asset and associated liability for lease terms of 12 months or less. Expense recognition in the statement of income along with cash flow statement classification for both financing (capital) and operating leases under the new standard will not be significantly changed from existing lease guidance. This guidance becomes effective for AAM at the beginning of our 2019 fiscal year and requires transition under a modified retrospective method. We are currently assessing the impact that this standard will have on our consolidated financial statements.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Accounting Standards Update 2014-09

In 2014, the FASB issued ASU 2014-09 - Revenue from Contracts with Customers (Topic 606), and has subsequently issued ASUs 2015-14 - Revenue from Contracts with Customers (Topic 606): Deferral of the Effective Date, 2016-08 - Revenue from Contracts with Customers (Topic 606): Principal versus Agent Considerations (Reporting Revenue Gross Versus Net), 2016-10 - Revenue from Contracts with Customers (Topic 606): Identifying Performance Obligations and Licensing, 2016-12 - Revenue from Contracts with Customers (Topic 606): Narrow-Scope Improvements and Practical Expedients, and 2016-20 - Revenue from Contracts with Customers (Topic 606): Technical Corrections and Improvements to Topic 606 (collectively, the Revenue Recognition ASUs).

The Revenue Recognition ASUs outline a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers and supersede most current revenue recognition guidance, including industry-specific guidance. The guidance is based on the principle that an entity should recognize revenue 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 guidance also requires additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to fulfill a contract. This guidance is effective for AAM beginning on January 1, 2018 and entities have the option of using either a full retrospective or a modified retrospective approach for the adoption of the new standard. We are evaluating whether we will adopt this guidance using the full retrospective or modified retrospective approach.

We are concluding the assessment phase of implementing this guidance. We have evaluated each of the five steps in the new revenue recognition model, which are as follows: 1) Identify the contract with the customer; 2) Identify the performance obligations in the contract; 3) Determine the transaction price; 4) Allocate the transaction price to the performance obligations; and 5) Recognize revenue when (or as) performance obligations are satisfied. Our preliminary conclusion is that the determination of what constitutes a contract with our customers (step 1), our performance obligations under the contract (step 2), and the determination and allocation of the transaction price (steps 3 and 4) under the new revenue recognition model will not result in significant changes in comparison to the current revenue recognition guidance.

With regard to recognizing revenue when (or as) a performance obligation is satisfied (step 5), we are thoroughly reviewing the language in our contracts with each customer to determine whether the customer obtains control of the goods at a point in time or over time. Under current revenue recognition guidance, we recognize revenue when products are shipped to our customers and title transfers under standard commercial terms or when realizable in accordance with our commercial agreements. Topic 606 provides certain criteria that, if met, require companies to recognize revenue as the product is produced (over time) instead of at a point of time (i.e. upon shipment). We are evaluating our contracts in the context of the criteria for recognizing revenue over time. If we conclude that we meet the criteria for recognizing revenue over time, our timing of revenue recognition would be accelerated. We have initiated the assessment phase of evaluating the impact of Topic 606 on MPG's contracts with customers and are assessing the overall impact that the acquisition of MPG will have on our recognition of revenue.

There are also certain considerations related to internal control over financial reporting that are associated with implementing the new guidance under Topic 606. We are currently evaluating our control framework for revenue recognition and identifying any changes that may need to be made in response to the new guidance. Disclosure requirements under the new guidance in Topic 606 have been significantly expanded in comparison to the disclosure requirements under the current guidance. Designing and implementing the appropriate controls over gathering and reporting the information required under Topic 606 is currently in process.

Share Repurchase Program In 2016, AAM's Board of Directors authorized a share repurchase program of up to \$100 million of AAM's common shares through December 31, 2018 as part of AAM's overall capital allocation strategy. The repurchase of shares may be made in the open market or in privately negotiated transactions and will be funded through available cash balances and cash flow from operations. The timing and amount of any share repurchases will be determined based on market and economic conditions, share price, alternative uses of capital and other factors. Approximately \$1.5 million of shares have been repurchased under the authorized share repurchase program, leaving approximately \$98.5 million available for repurchase. There were no repurchases under the program in the first six months of 2017.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
 NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

2. RESTRUCTURING AND ACQUISITION-RELATED COSTS

In the fourth quarter of 2016, AAM initiated actions under a global restructuring program focused on creating a more streamlined organization in addition to reducing our cost structure and preparing for acquisition integration activities. A summary of this activity for the first six months of 2017 is shown below:

	Severance Charges (in millions)	Implementation Costs (in millions)	Total
Accrual as of December 31, 2016	\$0.6	\$ 9.2	\$9.8
Charges	1.5	7.0	8.5
Cash utilization	(2.0)	(11.8)	(13.8)
Non-cash utilization	—	—	—
Accrual adjustments	—	—	—
Accrual as of June 30, 2017	\$0.1	\$ 4.4	\$4.5

As part of our restructuring actions, we incurred severance charges of approximately \$1.5 million, as well as implementation costs, including professional expenses, of approximately \$7.0 million during the six months ended June 30, 2017. Since the inception of our global restructuring program, we have incurred severance charges totaling \$2.1 million and implementation costs totaling \$17.2 million. We expect to incur approximately \$15 to \$20 million of additional charges under our global restructuring program in 2017.

On March 1, 2017, we completed the acquisition of USM Mexico Manufacturing LLC (USM Mexico) and on April 6, 2017, we completed the acquisition of MPG. During the six months ended June 30, 2017, we incurred the following charges related to these acquisitions:

	Acquisition-Related Costs (in millions)	Severance Charges (in millions)	Integration Expenses (in millions)	Total
Charges	\$39.7	\$ 4.2	\$ 15.3	\$59.2

Total restructuring and
 acquisition-related charges \$67.7

Acquisition-related costs primarily consist of advisory, legal, accounting, valuation and certain other professional or consulting fees incurred. Also included in acquisition-related costs is a one-time charge of approximately \$20 million for MPG stock-based compensation that was accelerated and settled as a result of the acquisition. Integration expenses reflect costs incurred for information technology systems, ongoing operational activities, and consulting fees incurred in conjunction with the acquisitions. Total charges associated with our global restructuring program and acquisition-related charges of \$51.7 million and \$67.7 million are shown on a separate line item titled "Restructuring and Acquisition-Related Costs" in our Condensed Consolidated Statements of Income for the three and six months ended June 30, 2017, respectively.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

3. BUSINESS COMBINATIONS

Acquisition of MPG

On April 6, 2017, AAM completed its acquisition of 100% of the equity interests of MPG for a total purchase price of approximately \$1.5 billion plus the assumption of approximately \$1.7 billion in net debt (comprised of approximately \$1.9 billion in debt less approximately \$0.2 billion of MPG cash and cash equivalents). Under the terms of the agreement and plan of merger (Merger Agreement), each share of MPG common stock (other than MPG excluded shares as defined in the Merger Agreement) was converted into the right to receive (a) \$13.50 in cash, without interest, and (b) 0.5 of a share of AAM common stock (Merger Consideration). Further, MPG stock options outstanding immediately prior to the effective time of the merger were accelerated and holders of the stock options received the Merger Consideration less the per share exercise price of the MPG stock options. All MPG restricted shares and restricted stock unit awards outstanding under an MPG equity plan were also accelerated and each holder thereof received the Merger Consideration for each restricted share or restricted stock unit award of MPG common stock.

MPG provides highly-engineered components for use in powertrain and safety-critical platforms for the global light, commercial and industrial markets. MPG produces these components using complex metal-forming manufacturing technologies and processes for a global customer base of OEMs and Tier I suppliers, which help their customers meet fuel economy, performance and safety standards. Our acquisition of MPG contributes significantly to diversifying our global customer base and end markets, while also allowing us to expand our presence as a global Tier I supplier to the commercial and industrial markets, in addition to our existing presence as a global Tier I supplier to the automotive industry.

The aggregate cash consideration for the acquisition of MPG was financed using (i) net proceeds from the issuance in March 2017 by AAM of \$1.2 billion of new senior notes consisting of \$700.0 million aggregate principal amount of 6.25% senior notes due 2025, and \$500.0 million aggregate principal amount of 6.50% senior notes due 2027, and on April 6, 2017: (ii) borrowings by AAM of \$100.0 million under a term loan that matures five years after completion of the acquisition of MPG, (iii) borrowings by AAM of \$1.55 billion under a term loan that matures seven years after completion of the acquisition of MPG, and (iv) cash on hand.

The acquisition of MPG was accounted for under the acquisition method under Accounting Standards Codification 805 Business Combinations (ASC 805) with the purchase price allocated to the identifiable assets and liabilities of the acquired company based on the respective fair values of the assets and liabilities.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
 NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following represents the preliminary fair values of the assets acquired and liabilities assumed resulting from the acquisition, as well as the calculation of goodwill:

(in millions)	April 6, 2017
Cash consideration	\$953.5
Share consideration	576.7
Total consideration transferred	\$1,530.2
Fair value of MPG noncontrolling interests	3.6
Total fair value of MPG	\$1,533.8
Cash and cash equivalents	\$202.1
Accounts receivable	403.2
Inventories	199.1
Prepaid expenses and other long-term assets	122.5
Property, plant and equipment	991.0
Intangible assets	1,244.6
Total assets acquired	\$3,162.5
Accounts payable	287.8
Accrued expenses and other	137.1
Deferred income tax liabilities	606.9
Debt	1,918.7
Postretirement benefits and other long-term liabilities	54.5
Net assets acquired	\$157.5
Goodwill	\$1,376.3

The preliminary allocation of the purchase price to the assets acquired and liabilities assumed, including the residual amount recognized as goodwill, is based upon estimated information and is subject to change within the measurement period. Under the guidance in ASC 805, the measurement period is a period not to exceed one year from the acquisition date during which we may adjust estimated or provisional amounts recorded during purchase accounting if new information is obtained about facts and circumstances that existed as of the acquisition date that, if known, would have resulted in revised estimated values of those assets or liabilities as of that date. Measurement period adjustments are recorded in the period identified with an offsetting entry to goodwill. Any adjustments to amounts recorded in purchase accounting that do not qualify as measurement period adjustments will be included in earnings in the period identified.

The primary areas of the preliminary purchase price allocation that are not yet finalized relate to the fair value of property, plant and equipment and intangible assets, as well as deferred income tax assets and liabilities, and contingent liabilities. The fair values of the assets acquired and liabilities assumed are based on our preliminary estimates and assumptions, as well as other information compiled by management, including valuations that utilize customary valuation procedures and techniques. While we believe that these preliminary estimates provide a reasonable basis for estimating the fair value of the assets acquired and liabilities assumed, we will continue to evaluate available information prior to finalization of the amounts.

Goodwill resulting from the acquisition is primarily attributable to anticipated synergies and economies of scale from which we expect to benefit as a combined entity. None of the goodwill is expected to be deductible for tax purposes.

We recognized \$1,244.6 million of amortizable intangible assets for customer platforms, customer relationships, developed technology and licensing agreements as a result of the acquisition of MPG. These intangible assets will be amortized over a period ranging from five to 17 years. The intangible assets were valued using primarily the relief from royalty method or the multi-period excess earnings method, both of which utilize significant unobservable inputs. These inputs are defined in the fair value hierarchy as Level 3 inputs, which require management to make estimates and assumptions regarding certain financial measures using forecasted or projected information.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

AAM had an existing accounts payable balance of \$12.4 million with MPG as of the date of acquisition. As a result of the acquisition, this pre-existing accounts payable balance was settled and AAM accounted for this settlement separately from the acquisition. This resulted in a \$12.4 million reduction in the purchase price and this portion of the cash paid to acquire MPG has been reflected as an operating cash outflow in our Condensed Consolidated Statement of Cash Flows for the six months ended June 30, 2017.

Included in net sales and net income attributable to AAM for the period from the acquisition date on April 6, 2017 through June 30, 2017 was approximately \$684 million and \$28 million, respectively, attributable to MPG.

Unaudited Pro Forma Financial Information

Unaudited pro forma net sales for AAM, on a combined basis with MPG for the six months ended June 30, 2017 and June 30, 2016, were \$3.5 billion and \$3.4 billion, respectively, excluding MPG sales to AAM during those periods. Unaudited pro forma net income amounts for the six months ended June 30, 2017 and June 30, 2016 were approximately \$185 million and \$120 million, respectively. Unaudited pro forma earnings per share amounts for the six months ended June 30, 2017 and June 30, 2016 were \$1.94 per share and \$1.24 per share, respectively.

The unaudited pro forma net income amounts for the six months ended June 30, 2017 and June 30, 2016 have been adjusted for approximately \$20 million of a one-time charge for MPG stock-based compensation that was accelerated and settled on the date of acquisition, approximately \$25 million related to the step-up of inventory to fair value as a result of the acquisition, and approximately \$22 million in acquisition-related costs. This adjustment resulted in a reclassification of approximately \$45 million, net of tax, from unaudited pro forma net income for the first six months of 2017 into pro forma net income for the first six months of 2016, as we are required to disclose the unaudited pro forma amounts as if the acquisition of MPG had been completed on January 1, 2016.

The disclosure of unaudited pro forma net sales and earnings is for informational purposes only and does not purport to indicate the results that would actually have been obtained had the merger been completed on the assumed date for the periods presented, or which may be realized in the future.

Acquisition of USM Mexico

On March 1, 2017, AAM completed the acquisition of 100% of USM Mexico, a former subsidiary of U.S. Manufacturing Corporation (USM). The purchase price was funded entirely with available cash and the acquisition was accounted for under the acquisition method.

USM Mexico includes USM's operations in Guanajuato, Mexico, which has historically been one of the largest suppliers to AAM's Guanajuato Manufacturing Complex. This acquisition allows AAM to vertically integrate the supply chain and helps ensure continuity of supply for certain parts to our largest manufacturing facility.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following represents the estimated fair value of the assets acquired and liabilities assumed resulting from the acquisition, as well as the calculation of goodwill:

(in millions)	March 1, 2017
Contractual purchase price	\$162.5
Adjustments to contractual purchase price for capital equipment	4.9
Adjustment to contractual purchase price for settlement of existing accounts payable balance	(22.8)
Cash acquired	(0.5)
Adjusted purchase price, net of cash acquired	\$144.1
Accounts receivable	1.1
Inventories	4.8
Prepaid expenses and other	2.4
Property, plant and equipment	38.4
Intangible assets	31.7
Total assets acquired	\$78.4
Accounts payable	10.8
Accrued expenses and other	2.7
Deferred income tax liabilities	1.2
Net assets acquired	\$63.7
Goodwill	\$80.4

The purchase agreement specifies a period of time subsequent to the acquisition date for calculating the final working capital amount of USM Mexico as of the acquisition date. As a result, the purchase price, working capital and goodwill amounts as included in the table above are considered provisional and are subject to adjustment. We expect these provisional amounts to be finalized in the third quarter of 2017. None of the goodwill is expected to be deductible for tax purposes.

AAM had an existing accounts payable balance of \$22.8 million with USM Mexico as of the date of acquisition. As a result of the acquisition, this pre-existing accounts payable balance was settled and AAM accounted for this settlement separately from the acquisition. This resulted in a \$22.8 million reduction in the purchase price and this portion of the cash paid to acquire USM Mexico has been reflected as an operating cash outflow in our Condensed Consolidated Statement of Cash Flows for the six months ended June 30, 2017.

The operating results of USM Mexico from the acquisition date through June 30, 2017 were insignificant to AAM's Condensed Consolidated Statement of Income for the three months and six months ended June 30, 2017. Further, we have not included pro forma revenue and earnings for the six months ended June 30, 2017 and June 30, 2016 as the inclusion of USM Mexico would be insignificant to AAM's consolidated results for these periods.

4. GOODWILL AND INTANGIBLE ASSETS

Goodwill The following table provides a reconciliation of changes in goodwill for the six months ended June 30, 2017:

Driveline	Metal Forming	Powertrain Casting	Consolidated
(in millions)			

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Balance as of December 31, 2016	\$ 130.1	\$ 23.9	\$ —	\$ —	\$ 154.0
Acquisition of MPG	—	509.3	467.9	399.1	1,376.3
Acquisition of USM Mexico	80.4	—	—	—	80.4
Foreign currency translation	0.1	—	—	—	0.1
Balance as of June 30, 2017	\$ 210.6	\$ 533.2	\$ 467.9	\$ 399.1	\$ 1,610.8

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AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Intangible Assets As a result of the acquisitions of MPG and USM Mexico, AAM identified and recognized certain intangible assets that are subject to amortization. The weighted-average amortization period for all intangible assets recognized as a result of these acquisitions is 13.6 years. The following table provides a breakout of the major intangible assets acquired by class:

	Estimated Useful Lives (years)	June 30, 2017 (in millions)
MPG		
Customer platforms	14	\$ 970.0
Customer relationships	16-17	153.3
Technology and other	5-13	121.3
Total MPG		\$ 1,244.6
USM Mexico		
Technology	13	\$ 29.5
Customer platforms	13	2.2
Total USM Mexico		\$ 31.7
Total		\$ 1,276.3

The following table provides a reconciliation of the gross carrying amount and associated accumulated amortization for AAM's total intangible assets, which are all subject to amortization:

	June 30, 2017			December 31, 2016		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
	(in millions)					
Capitalized computer software	\$34.0	\$ (11.4)	\$ 22.6	\$31.7	\$ (8.5)	\$ 23.2
e-AAM in-process research & development	5.7	—	5.7	5.3	—	5.3
Customer platforms	972.2	(17.9)	954.3	—	—	—
Customer relationships	153.3	(2.3)	151.0	—	—	—
Technology and other	150.8	(3.3)	147.5	—	—	—
Total	\$1,316.0	\$ (34.9)	\$ 1,281.1	\$37.0	\$ (8.5)	\$ 28.5

Amortization expense for these intangible assets was \$24.8 million and \$26.4 million for the three and six months ended June 30, 2017, respectively, and \$1.2 million and \$2.3 million for the three and six months ended June 30, 2016, respectively. Estimated amortization expense for each of the next five years is as follows: approximately \$76 million in 2017 and approximately \$100 million in each of the years 2018 through 2021.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

5. INVENTORIES

We state our inventories at the lower of cost or net realizable value. The cost of our inventories is determined using the first-in first-out method. When we determine that our gross inventories exceed usage requirements, or if inventories become obsolete or otherwise not saleable, we record a provision for such loss as a component of our inventory accounts.

Inventories consist of the following:

	June 30, December 31,	
	2017	2016
	(in millions)	
Raw materials and work-in-progress	\$322.9	\$ 163.3
Finished goods	86.4	33.8
Gross inventories	409.3	197.1
Inventory valuation reserves	(24.8)	(14.8)
Inventories, net	\$384.5	\$ 182.3

Effective April 1, 2017, we changed our method of accounting for indirect inventory from capitalizing and recording as expense when the inventory was consumed to now expensing indirect inventory at the time of purchase. Based on the guidance in ASC 250 Accounting Changes and Error Corrections, we have adjusted retained earnings to reflect the retrospective application of this change in accounting principle. Refer to Note 1 - Organization and Basis of Presentation for further detail. Based on this change in accounting principle, Raw materials and work-in-progress and Inventory valuation reserves, as of December 31, 2016, reflect a decrease of \$49.4 million and a decrease of \$12.2 million, respectively.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

6. LONG-TERM DEBT

Long-term debt consists of the following:

	June 30, 2017	December 31, 2016
	(in millions)	
Revolving Credit Facility	\$—	\$ —
Term Loan A Facility	95.0	—
Term Loan B Facility	1,534.5	—
7.75% Notes due 2019	200.0	200.0
6.625% Notes due 2022	550.0	550.0
6.50% Notes due 2027	500.0	—
6.25% Notes due 2025	700.0	—
6.25% Notes due 2021	400.0	400.0
5.125% Notes due 2019	200.0	200.0
Foreign credit facilities	52.6	60.4
Capital lease obligations	29.0	5.5
Total debt	4,261.1	1,415.9
Less: Current portion of long-term debt	5.2	3.3
Long-term debt	4,255.9	1,412.6
Less: Debt issuance costs	82.3	11.7
Long-term debt, net	\$4,173.6	\$ 1,400.9

New Senior Secured Credit Facilities In connection with our acquisition of MPG (the Acquisition) on April 6, 2017, Holdings and American Axle & Manufacturing, Inc. (AAM, Inc.) entered into a credit agreement (the Credit Agreement), among AAM, Inc., as borrower, Holdings, each financial institution party thereto as a lender (the Lenders) and administrative agent, pursuant to which Holdings and certain of its restricted subsidiaries (including certain subsidiaries of MPG acquired as part of the Acquisition) are required to guarantee the borrowings of AAM, Inc. thereunder and Holdings, AAM, Inc. and certain of their restricted subsidiaries are required to pledge their assets (including, without limitation, after-acquired assets), subject to certain exceptions and limitations. In connection with the Credit Agreement, Holdings, AAM, Inc. and certain of their restricted subsidiaries entered into a Collateral Agreement and Guarantee Agreement with the financial institutions party thereto as collateral agent and administrative agent.

Pursuant to the Credit Agreement, the Lenders agreed to provide a \$100.0 million term loan A facility (the Term Loan A Facility), a \$1.55 billion term loan B facility (the Term Loan B Facility) and a \$900 million multi-currency revolving credit facility (the Revolving Credit Facility, and together with the Term Loan A Facility and the Term Loan B Facility, the New Senior Secured Credit Facilities). The proceeds of the Term Loan A Facility and the Term Loan B Facility were used to finance a portion of the consideration for the Acquisition, pay transaction costs, redeem in full MPG Holdco I Inc.'s 7.375% Senior Notes due 2022, and repay the existing indebtedness of AAM, Inc. under its Amended and Restated Credit Agreement, dated as of January 9, 2004, amended and restated as of September 13, 2013 and as further amended, among AAM, Inc., as borrower, Holdings, and each financial institution party thereto as a lender and administrative agent, as well as repay existing indebtedness of MPG under its Credit Agreement, dated as of October 20, 2014 and as amended as of May 8, 2015, among MPG Holdco I Inc., as guarantor, MPG, the subsidiary guarantors party thereto, and each financial institution party thereto as a lender and administrative agent.

The proceeds of the Revolving Credit Facility will be used for general corporate purposes. We paid debt issuance costs of \$53.6 million in the first six months of 2017 related to the New Senior Secured Credit Facilities.

The Term Loan A Facility and the Revolving Credit Facility will mature on April 6, 2022, and the Term Loan B Facility will mature on April 6, 2024. Borrowings under the New Senior Secured Credit Facilities bear interest at rates based on the applicable Eurodollar rate or alternate base rate, as AAM may elect, in each case plus an applicable margin determined based on AAM's total net leverage ratio. The alternate base rate is the greatest of (a) the prime rate of a major United States financial institution, (b) the Federal Reserve Bank of New York rate plus 0.50% and (c) the adjusted Eurodollar rate plus 1.00%. The applicable margin for Eurodollar-based loans under the New Senior Secured Credit Facilities will be between 1.25% and 2.25%

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

with respect to any loan under the Term Loan A Facility, 2.25% with respect to any loan under the Term Loan B Facility, and between 2.00% and 3.00% with respect to any loan under the Revolving Credit Facility. The applicable margin for loans subject to alternate base rate will be between 0.25% and 1.25% with respect to any loan under the Term Loan A Facility, 1.25% with respect to any loan under the Term Loan B Facility, and between 1.00% and 2.00% with respect to any loan under the Revolving Credit Facility.

The Credit Agreement requires certain mandatory prepayments of outstanding loans under the Term Loan A Facility and the Term Loan B Facility, subject to certain exceptions, based on a percentage of the annual excess cash flow of Holdings and its restricted subsidiaries (with step-downs to 0% based upon the total net leverage ratio, and with no prepayment required if annual excess cash flow is under a specified minimum threshold), the net cash proceeds of certain asset sales and casualty and condemnation events, subject to reinvestment rights and certain other exceptions, and the net cash proceeds of any issuance of debt not otherwise permitted under the Credit Agreement.

The Credit Agreement permits AAM, Inc. to incur incremental term loan borrowings and/or increase commitments under the Revolving Credit Facility, subject to certain limitations and the satisfaction of certain conditions, in an aggregate amount not to exceed (i) \$600 million, plus (ii) certain voluntary prepayments, plus (iii) additional amounts subject to pro forma compliance with a first lien net leverage ratio for Holdings and its restricted subsidiaries.

The Credit Agreement contains customary affirmative and negative covenants, including, among others, financial covenants based on total net leverage and cash interest expense coverage ratios and limitations on the ability of Holdings, AAM, Inc. or their restricted subsidiaries to make certain investments, declare or pay dividends or distributions on capital stock, redeem or repurchase capital stock and certain debt obligations, incur liens, incur indebtedness, or merge, make certain acquisitions or certain sales of assets. The Credit Agreement includes customary events of default, the occurrence of which would permit the lenders to, among other things, declare the principal, accrued interest and other obligations to be immediately due and payable. Upon such default, the lenders may also seek customary remedies with respect to the collateral under the Collateral Agreement.

In the second quarter of 2017, we elected to prepay \$5.0 million of the outstanding principal on our Term Loan A Facility and \$15.5 million of the outstanding principal on our Term Loan B Facility. These payments satisfy our obligation for principal payments under the Term Loan A Facility and Term Loan B Facility for the next four quarters. As a result, there are no amounts related to the Term Loan A Facility or Term Loan B Facility in the Current portion of long-term debt line item in our Condensed Consolidated Balance Sheet as of June 30, 2017.

At June 30, 2017, we had \$869.8 million available under the Revolving Credit Facility. This availability reflects a reduction of \$30.2 million for standby letters of credit issued against the facility.

The New Senior Secured Credit Facilities provide back-up liquidity for our foreign credit facilities. We intend to use the availability of long-term financing under the New Senior Secured Credit Facilities to refinance any current maturities related to such debt agreements that are not otherwise refinanced on a long-term basis in their local markets, except where otherwise reclassified to current portion of long-term debt on our Condensed Consolidated Balance Sheet.

6.50% Notes due 2027 and 6.25% Notes due 2025 On March 23, 2017, we issued \$700.0 million in aggregate principal amount of 6.25% senior notes due 2025 and \$500.0 million in aggregate principal amount of 6.50% senior notes due 2027 (the Notes). Proceeds from the Notes were used primarily to fund the cash consideration related to AAM's acquisition of MPG, related fees and expenses, refinancing certain existing indebtedness of MPG and borrowings under our previous revolving credit facility, which has been replaced by our new Revolving Credit Facility, together with borrowings under the New Senior Secured Credit Facilities. We paid debt issuance costs of

\$36.9 million in the first six months of 2017 related to the Notes.

Repayment of MPG Indebtedness Upon the acquisition of MPG, we assumed approximately \$1.9 billion of existing MPG indebtedness, which we repaid in its entirety on the date of acquisition. This indebtedness was comprised of approximately \$0.2 billion of a Euro denominated term loan, approximately \$1.0 billion of a U.S. dollar denominated term loan and approximately \$0.7 billion of outstanding MPG bonds. Upon settlement of the debt, we paid approximately \$24.6 million of accrued interest. In addition, we expensed \$2.7 million of prepayment premiums related to the extinguishment of MPG's debt, which has been presented in the Debt refinancing and redemption costs line item within our condensed consolidated statements of income for both the three and six months ended June 30, 2017.

Foreign credit facilities We utilize local currency credit facilities to finance the operations of certain foreign subsidiaries. At June 30, 2017, \$52.6 million was outstanding under our foreign credit facilities and an additional \$95.9 million was available.

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The weighted-average interest rate of our long-term debt outstanding was 5.7% at June 30, 2017 and 6.6% at December 31, 2016.

7. FAIR VALUE

Accounting Standards Codification 820 - Fair Value Measurement defines fair value 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.” The definition is based on an exit price rather than an entry price, regardless of whether the entity plans to hold or sell the asset. This guidance also establishes a fair value hierarchy to prioritize inputs used in measuring fair value as follows:

Level 1: Observable inputs such as quoted prices in active markets;

Level 2: Inputs, other than quoted prices in active markets, that are observable either directly or indirectly; and

Level 3: Unobservable inputs in which there is little or no market data, which require the reporting entity to develop its own assumptions.

Financial instruments The estimated fair value of our financial assets and liabilities that are recognized at fair value on a recurring basis, using available market information and other observable data, are as follows:

Balance Sheet Classification	June 30, 2017		December 31, 2016		Input
	Carrying Amount	Fair Value	Carrying Amount	Fair Value	
	(in millions)				
Cash equivalents	\$146.5	\$146.5	\$187.2	\$187.2	Level 1
Prepaid expenses and other					
Cash flow hedges - currency forward contracts	0.8	0.8	—	—	Level 2
Nondesignated - currency forward contracts	3.0	3.0	—	—	Level 2
Nondesignated - currency option contracts	2.7	2.7	—	—	Level 2
Other assets and deferred charges					
Cash flow hedges - currency forward contracts	2.4	2.4	—	—	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	0.6	0.6	—	—	Level 2
Accrued expenses and other					
Cash flow hedges - currency forward contracts	5.0	5.0	12.3	12.3	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	0.3	0.3	—	—	Level 2
Nondesignated - currency forward contracts	—	—	1.4	1.4	Level 2
Postretirement benefits and other long-term liabilities					
Cash flow hedges - currency forward contracts	0.2	0.2	11.4	11.4	Level 2
Cash flow hedges - variable-to-fixed interest rate swap	2.4	2.4	—	—	Level 2

The carrying values of our cash, accounts receivable, accounts payable and accrued liabilities approximate their fair values due to the short-term maturities of these instruments. The carrying values of our borrowings under the foreign credit facilities approximate their fair value due to the frequent resetting of the interest rates. We estimated the fair value of the amounts outstanding on our debt using available market information and other observable data, to be as follows:

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

	June 30, 2017	December 31, 2016	Carrying Amount	Fair Value	Input
					(in millions)
Revolving Credit Facility	\$—	—	\$—	—	Level 2
Term Loan A Facility	95.0	—	—	—	Level 2
Term Loan B Facility	1,535.2	—	—	—	Level 2
7.75% Notes due 2019	200.0	200.0	221.0	221.0	Level 2
6.625% Notes due 2022	556.1	550.0	566.1	566.1	Level 2
6.50% Notes due 2027	500.3	—	—	—	Level 2
6.25% Notes due 2025	700.5	—	—	—	Level 2
6.25% Notes due 2021	400.5	400.0	412.0	412.0	Level 2
5.125% Notes due 2019	200.5	200.0	201.7	201.7	Level 2

8. DERIVATIVES

Our business and financial results are affected by fluctuations in world financial markets, including interest rates and currency exchange rates. Our hedging policy has been developed to manage these risks to an acceptable level based on management's judgment of the appropriate trade-off between risk, opportunity and cost. We do not hold financial instruments for trading or speculative purposes.

Currency forward contracts From time to time, we use foreign currency forward and option contracts to reduce the effects of fluctuations in exchange rates, primarily relating to the Mexican Peso, Euro, Brazilian Real, British Pound Sterling, Thai Baht, Swedish Krona, Chinese Yuan, Polish Zloty and Indian Rupee. As of June 30, 2017, we have currency forward and option contracts outstanding with a notional amount of \$217.2 million that hedge our exposure to changes in foreign currency exchange rates for certain payroll expenses into the second quarter of 2020 and certain direct and indirect inventory and other working capital items into the first quarter of 2018.

Variable-to-fixed interest rate swap In the second quarter of 2017, we entered into a variable-to-fixed interest rate swap to reduce the variability of cash flows associated with interest payments on our variable rate debt. We have the following notional amounts hedged in relation to our variable-to-fixed interest rate swap: \$750.0 million through May 2018, \$600.0 million through May 2019, \$450.0 million through May 2020 and \$200.0 million through May 2021.

The following table summarizes the reclassification of derivative losses into net income from accumulated other comprehensive loss for those derivative instruments designated as cash flow hedges under Accounting Standards Codification 815 - Derivatives and Hedging (ASC 815):

Location of Loss Reclassified into Net Income	Loss Reclassified During				Loss Expected to be Reclassified During the Next 12 Months	
	Three Months Ended June 30, 2017		Six Months Ended June 30, 2016			
Currency forward contracts	Cost of Goods Sold	\$(1.1)	\$(2.3)	\$(3.9)	\$(4.3)	\$(4.2)

(in millions)

Variable-to-fixed interest rate swap Interest Expense — — — — (0.2)

See Note 13 - Reclassifications Out of Accumulated Other Comprehensive Income (Loss) (AOCI) for amounts recognized in other comprehensive income (loss) during the three and six months ended June 30, 2017 and 2016.

The following table summarizes the amount and location of gains (losses) recognized in the Condensed Consolidated Statements of Income for those derivative instruments not designated as hedging instruments under ASC 815:

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Location of Gain (Loss)	Recognized in Net Income	Gain (Loss) Recognized During			
		Three Months Ended June 30, 2017 2016		Six Months Ended June 30, 2017 2016	
		(in millions)			
Currency forward contracts	Cost of Goods Sold	\$2.2	\$(2.2)	\$5.7	\$(2.7)
Currency forward contracts	Other Income, Net	—	—	—	(0.7)
Currency option contracts	Cost of Goods Sold	1.1	—	1.1	—

9.EMPLOYEE BENEFIT PLANS

The components of net periodic benefit cost (credit) are as follows:

	Pension Benefits			
	Three Months Ended June 30, 2017 2016		Six Months Ended June 30, 2017 2016	
	(in millions)			
Service cost	\$1.1	\$0.8	\$1.9	\$1.5
Interest cost	7.4	7.3	14.2	14.6
Expected asset return	(11.1)	(10.7)	(21.6)	(21.4)
Amortized loss	1.8	1.4	3.5	2.8
Net periodic benefit credit	\$(0.8)	\$(1.2)	\$(2.0)	\$(2.5)

	Other Postretirement Benefits			
	Three Months Ended June 30, 2017 2016		Six Months Ended June 30, 2017 2016	
	(in millions)			
Service cost	\$0.1	\$0.1	\$0.2	\$0.2
Interest cost	3.3	3.5	6.6	7.0
Amortized loss	0.1	0.1	0.3	0.2
Amortized prior service credit	(0.6)	(0.6)	(1.3)	(1.3)
Net periodic benefit cost	\$2.9	\$3.1	\$5.8	\$6.1

The noncurrent liabilities associated with our pension and other postretirement benefit plans are classified as postretirement benefits and other long-term liabilities on our Condensed Consolidated Balance Sheets. As of June 30,

2017 and December 31, 2016, we have a noncurrent pension liability of \$144.2 million and \$113.5 million, respectively. As of June 30, 2017 and December 31, 2016, we have a noncurrent other postretirement benefits liability of \$541.6 million and \$542.6 million, respectively.

Due to the availability of our pre-funded pension balances (previous contributions in excess of prior required pension contributions) related to our U.S. pension plans, as well as contributions we made in 2015 for one of our U.K. pension plans, the cash payments to our pension trusts will be insignificant in 2017. We expect our cash payments for other postretirement benefit obligations in 2017, net of GM cost sharing, to be approximately \$16 million.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

10. PRODUCT WARRANTIES

We record a liability for estimated warranty obligations at the dates our products are sold. These estimates are established using sales volumes and internal and external warranty data where there is no payment history and historical information about the average cost of warranty claims for customers with prior claims. We estimate our costs based on the contractual arrangements with our customers, existing customer warranty terms and internal and external warranty data, which includes a determination of our warranty claims and actions taken to improve product quality and minimize warranty claims. We continuously evaluate these estimates and our customers' administration of their warranty programs. We closely monitor actual warranty claim data and adjust the liability, as necessary, on a quarterly basis.

The following table provides a reconciliation of changes in the product warranty liability:

	Three Months Ended June 30, 2017		Six Months Ended June 30, 2016	
	2017	2016	2017	2016
	(in millions)			
Beginning balance	\$47.5	\$37.0	\$42.9	\$36.6
Accruals	4.1	4.1	9.6	8.0
Payments	(1.5)	(3.2)	(2.4)	(3.7)
Adjustment to prior period accruals	(2.4)	—	(2.6)	(3.1)
Foreign currency translation	0.2	—	0.4	0.1
Ending balance	\$47.9	\$37.9	\$47.9	\$37.9

11. INCOME TAXES

We are required to adjust our effective tax rate each quarter to estimate our annual effective tax rate. We must also record the tax impact of certain discrete, unusual or infrequently occurring items, including changes in judgment about valuation allowances and effects of changes in tax laws or rates, in the interim period in which they occur. In addition, jurisdictions with a projected loss for the year or a year-to-date loss where no tax benefit can be recognized are excluded from the estimated annual effective tax rate. The impact of such an exclusion could result in a higher or lower effective tax rate during a particular quarter, based upon the mix and timing of actual earnings versus annual projections.

Income tax expense was \$2.4 million in the three months ended June 30, 2017 as compared to \$20.7 million in the three months ended June 30, 2016. Our effective income tax rate was 3.6% in the second quarter of 2017 as compared to 22.6% in the second quarter of 2016. Income tax expense was \$9.9 million in the six months ended June 30, 2017 as compared to \$36.0 million in the six months ended June 30, 2016. Our effective income tax rate was 6.4% in the first six months of 2017 as compared to 21.4% in the first six months of 2016.

Our effective income tax rate for the three and six months ended June 30, 2017 is lower than our effective income tax rate for the three and six months ended June 30, 2016 primarily as a result of an increase in the proportionate share of income attributable to lower tax rate jurisdictions. In addition, subsequent to the acquisition of MPG, we re-evaluated our valuation allowance position with regard to jurisdictions in which consolidated state tax returns are filed and

recorded an income tax benefit for the three months ended June 30, 2017. This was partially offset by a discrete tax adjustment related to certain non-deductible transaction and acquisition-related costs. Our income tax expense and effective tax rate for the three and six months ended June 30, 2017, and June 30, 2016, reflect the impact of favorable foreign tax rates, partially offset by our inability to realize a tax benefit for current foreign losses.

Based on the status of audits outside the U.S., and the protocol of finalizing audits by the relevant tax authorities, it is not possible to estimate the timing or impact of changes, if any, to previously recorded uncertain tax positions. As of June 30, 2017 and December 31, 2016, we have recorded a liability for unrecognized income tax benefits and related interest and penalties of \$50.8 million and \$30.7 million, respectively. In January 2016, we completed negotiations with the Mexican tax authorities to settle transfer pricing audits. Including these settlements, we made payments of \$26.1 million in the first six months of 2016 to the Mexican tax authorities related to transfer pricing matters.

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Although it is difficult to estimate with certainty the amount of our tax liabilities for the years that remain subject to audit, we do not expect the settlements will be materially different from what we have recorded in unrecognized tax benefits. We will continue to monitor the progress and conclusions of current and future audits and will adjust our estimated liability as necessary.

12. EARNINGS PER SHARE (EPS)

We present earnings per share using the two-class method. This method allocates undistributed earnings between common shares and non-vested share based payment awards that entitle the holder to non-forfeitable dividend rights. Our participating securities include non-vested restricted stock units.

The following table sets forth the computation of our basic and diluted EPS available to shareholders of common stock (excluding participating securities):

	Three Months Ended June 30, 2017		Six Months Ended June 30, 2016	
	(in millions, except per share data)			
Numerator				
Net income attributable to AAM	\$66.2	\$71.0	\$144.6	\$132.1
Less: Net income attributable to participating securities	(1.4)	(1.7)	(3.3)	(3.0)
Net income attributable to common shareholders - Basic and Dilutive	\$64.8	\$69.3	\$141.3	\$129.1
Denominators				
Basic common shares outstanding -				
Weighted-average shares outstanding	111.6	78.3	95.2	78.1
Less: Participating securities	(2.3)	(1.8)	(2.2)	(1.8)
Weighted-average common shares outstanding	109.3	76.5	93.0	76.3
Effect of dilutive securities -				
Dilutive stock-based compensation	0.4	0.4	0.4	0.4
Diluted shares outstanding -				
Adjusted weighted-average shares after assumed conversions	109.7	76.9	93.4	76.7
Basic EPS	\$0.59	\$0.91	\$1.52	\$1.69
Diluted EPS	\$0.59	\$0.90	\$1.51	\$1.68

Certain exercisable stock options were excluded from the computations of diluted EPS because the exercise price of these options was greater than the average period market prices. There were no stock options excluded from the calculation of diluted EPS at June 30, 2017. The number of stock options outstanding, which were not included in the calculation of diluted EPS, was 0.2 million, with an exercise price of \$26.02, at June 30, 2016.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

13. RECLASSIFICATIONS OUT OF ACCUMULATED OTHER COMPREHENSIVE INCOME (LOSS) (AOCI)

Reclassification adjustments and other activity impacting accumulated other comprehensive income (loss) during the three months ended June 30, 2017 and June 30, 2016 are as follows (in millions):

	Defined Benefit Plans	Foreign Currency Translation Adjustments	Unrecognized Loss on Cash Flow Hedges	Total
Balance at March 31, 2017	\$(243.8)	\$ (110.5)	\$ (8.2)	\$(362.5)
Other comprehensive income before reclassifications	—	24.6	3.1	27.7
Income tax effect of other comprehensive income before reclassifications	—	—	0.7	0.7
Amounts reclassified from accumulated other comprehensive loss	1.3	(a)—	1.1	(b)2.4
Income tax benefit reclassified into net income	(0.4)	—	—	(0.4)
Net current period other comprehensive income	0.9	24.6	4.9	30.4
Balance at June 30, 2017	\$(242.9)	\$ (85.9)	\$ (3.3)	\$(332.1)
	Defined Benefit Plans	Foreign Currency Translation Adjustments	Unrecognized Loss on Cash Flow Hedges	Total
Balance at March 31, 2016	\$(219.7)	\$ (104.2)	\$ (10.0)	\$(333.9)
Other comprehensive income (loss) before reclassifications	—	0.8	(8.0)	(7.2)
Income tax effect of other comprehensive income (loss) before reclassifications	—	—	—	—
Amounts reclassified from accumulated other comprehensive loss	0.9	(a)—	2.3	(b)3.2
Income tax benefit reclassified into net income	(0.4)	—	—	(0.4)
Net current period other comprehensive income (loss)	0.5	0.8	(5.7)	(4.4)
Balance at June 30, 2016	\$(219.2)	\$ (103.4)	\$ (15.7)	\$(338.3)

The amount reclassified from AOCI included \$1.4 million in cost of goods sold (COGS) and \$(0.1) million in (a) selling, general & administrative expenses (SG&A) for the three months ended June 30, 2017 and \$1.2 million in COGS and \$(0.3) million in SG&A for the three months ended June 30, 2016.

(b) The amounts reclassified from AOCI are included in COGS.

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AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Reclassification adjustments and other activity impacting accumulated other comprehensive income (loss) during the six months ended June 30, 2017 and June 30, 2016 are as follows (in millions):

	Defined Benefit Plans	Foreign Currency Translation Adjustments	Unrecognized Loss on Cash Flow Hedges	Total
Balance at December 31, 2016	\$(243.5)	\$ (122.4)	\$ (23.7)	\$(389.6)
Other comprehensive income (loss) before reclassifications	(1.7)	36.5	15.8	50.6
Income tax effect of other comprehensive income (loss) before reclassifications	0.6	—	0.7	1.3
Amounts reclassified from accumulated other comprehensive loss	2.5	(a)—	3.9	(b)6.4
Income tax benefit reclassified into net income	(0.8)	—	—	(0.8)
Net current period other comprehensive income	0.6	36.5	20.4	57.5
Balance at June 30, 2017	\$(242.9)	\$ (85.9)	\$ (3.3)	\$(332.1)
	Defined Benefit Plans	Foreign Currency Translation Adjustments	Unrecognized Loss on Cash Flow Hedges	Total
Balance at December 31, 2015	\$(223.9)	(119.2)	\$ (13.4)	\$(356.5)
Other comprehensive income (loss) before reclassifications	5.7	15.8	(6.6)	14.9
Income tax effect of other comprehensive income (loss) before reclassifications	(2.0)	—	—	(2.0)
Amounts reclassified from accumulated other comprehensive loss	1.7	(a)—	4.3	(b)6.0
Income tax benefit reclassified into net income	(0.7)	—	—	(0.7)
Net current period other comprehensive income (loss)	4.7	15.8	(2.3)	18.2
Balance at June 30, 2016	\$(219.2)	\$ (103.4)	\$ (15.7)	\$(338.3)

The amount reclassified from AOCI included \$2.8 million in cost of goods sold (COGS) and \$(0.3) million in (a) selling, general & administrative expenses (SG&A) for the six months ended June 30, 2017 and \$2.3 million in COGS and \$(0.6) million in SG&A for the six months ended June 30, 2016.

(b)The amounts reclassified from AOCI are included in COGS.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

14. SEGMENT REPORTING

Prior to the acquisition of MPG on April 6, 2017, we operated in one reportable segment: the manufacture, engineer, design and validation of driveline systems and related components and chassis modules for light trucks, sport utility vehicles (SUVs), crossover vehicles, passenger cars and commercial vehicles. Subsequent to the acquisition of MPG, our business was organized into four business units, each representing a reportable segment under ASC 280 Segment Reporting. The four segments are Driveline, Metal Forming, Powertrain and Casting. The results of each segment are regularly reviewed by the chief operating decision maker to assess the performance of the segment and make decisions regarding the allocation of resources.

Our product offerings by segment are as follows:

Driveline products consist primarily of axles, driveshafts, power transfer units, rear drive modules, and electric and hybrid driveline products and systems for light trucks, SUVs, crossover vehicles, passenger cars and commercial vehicles;

Metal Forming products consist primarily of axle shafts, ring and pinion gears, differential gears, transmission gears and shafts and suspension components for OEMs and Tier 1 automotive suppliers;

The Powertrain segment products consist primarily of transmission module and differential assemblies, transmission valve bodies, connecting rod forging and assemblies, torsional vibration dampers, and variable valve timing products for OEMs and Tier I automotive suppliers; and

The Casting segment produces both thin wall castings and high strength ductile iron castings, as well as differential cases, steering knuckles, control arms, and turbo charger housings for the global light, commercial and industrial markets.

We use Segment Adjusted EBITDA as the measure of earnings to assess the performance of each segment and determine the resources to be allocated to the segments. Segment Adjusted EBITDA is defined as earnings before interest, income taxes, depreciation and amortization for our reportable segments, excluding the impact of restructuring and acquisition-related costs, debt refinancing and redemption costs and non-recurring items. The following tables represent information by reportable segment for the three months ended June 30, 2017 and 2016:

	Three Months Ended June 30, 2017				
	Driveline	Metal Forming	Powertrain	Casting	Total
Sales	\$1,021.5	\$ 369.3	\$ 283.6	\$ 225.6	\$1,900.0
Less: intersegment sales	0.4	109.4	2.2	30.2	142.2
Net external sales	\$1,021.1	\$ 259.9	\$ 281.4	\$ 195.4	\$1,757.8
Segment Adjusted EBITDA	\$178.9	\$ 69.4	\$ 51.9	\$ 25.5	\$325.7
	Three Months Ended June 30, 2016				
	Driveline	Metal Forming	Powertrain	Casting	Total
Sales	\$969.5	\$ 141.4	\$ —	\$ —	\$1,110.9
Less: intersegment sales	1.9	83.6	—	—	85.5
Net external sales	\$967.6	\$ 57.8	\$ —	\$ —	\$1,025.4
Segment Adjusted EBITDA	\$135.7	\$ 29.1	\$ —	\$ —	\$164.8

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NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

The following tables represent information by reportable segment for the six months ended June 30, 2017 and 2016:

Six Months Ended June 30, 2017

	Driveline	Metal Forming	Powertrain	Casting	Total
Sales	\$2,020.8	\$ 519.3	\$ 283.6	\$ 225.6	\$3,049.3
Less: intersegment sales	0.9	208.3	2.2	30.2	241.6
Net external sales	\$2,019.9	\$ 311.0	\$ 281.4	\$ 195.4	\$2,807.7

Segment Adjusted EBITDA \$332.1 \$ 99.8 \$ 51.9 \$ 25.5 \$509.3

Six Months Ended June 30, 2016

	Driveline	Metal Forming	Powertrain	Casting	Total
Sales	\$1,884.3	\$ 277.2	\$ —	\$ —	\$2,161.5
Less: intersegment sales	3.7	163.2	—	—	166.9
Net external sales	\$1,880.6	\$ 114.0	\$ —	\$ —	\$1,994.6

Segment Adjusted EBITDA \$257.5 \$ 57.1 \$ — \$ — \$314.6

Total assets by reportable segment as of June 30, 2017 and December 31, 2016 were as follows:

June 30, 2017

	Driveline	Metal Forming	Powertrain	Casting	Other	Total
Total assets	\$2,300.1	\$2,131.5	\$ 1,816.6	\$ 1,013.4	\$ 628.2	\$7,889.8

December 31, 2016

	Driveline	Metal Forming	Powertrain	Casting	Other	Total
Total assets	\$2,183.9	\$410.3	\$ —	\$ —	\$ 829.7	\$3,423.9

Assets included in the Other column in the table above represent AAM Corporate assets, as well as eliminations of intercompany assets.

The following table represents a reconciliation of Segment Adjusted EBITDA to consolidated income before income taxes for the three and six months ended June 30, 2017 and 2016.

	Three Months Ended June 30,		Six Months Ended June 30,	
	2017	2016	2017	2016
Segment Adjusted EBITDA	\$325.7	\$164.8	\$509.3	\$314.6
Interest expense	(56.9)	(23.4)	(82.4)	(47.0)
Depreciation and amortization	(124.6)	(50.7)	(180.8)	(100.5)
Restructuring and acquisition-related costs	(51.7)	—	(67.7)	—
Acquisition-related fair value inventory adjustment	(24.9)	—	(24.9)	—
Impact of change in accounting principle	3.7	—	3.7	—
Debt refinancing and redemption costs	(2.7)	—	(2.7)	—
Investment gain related to the final distribution of the Reserve Yield Plus Fund	—	1.0	—	1.0
Other	0.1	—	0.1	—
Income before income taxes	\$68.7	\$91.7	\$154.6	\$168.1

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

15. SUPPLEMENTAL GUARANTOR CONDENSED CONSOLIDATING FINANCIAL STATEMENTS

Holdings has no significant assets other than its 100% ownership in AAM, Inc. and Metaldyne Performance Group, Inc. (MPG Inc.), and no direct subsidiaries other than AAM, Inc. and MPG Inc. The 7.75% Notes, 6.625% Notes, 6.50% Notes, 6.25% Notes (due 2025), 6.25% Notes (due 2021) and 5.125% Notes are senior unsecured obligations of AAM, Inc.; all of which are fully and unconditionally guaranteed, on a joint and several basis, by Holdings and substantially all domestic subsidiaries of AAM, Inc. and, as of May 17, 2017, MPG Inc, and substantially all domestic subsidiaries of MPG Inc.

These Condensed Consolidating Financial Statements are prepared under the equity method of accounting whereby the investments in subsidiaries are recorded at cost and adjusted for the parent's share of the subsidiaries' cumulative results of operations, capital contributions and distributions, and other equity changes.

Condensed Consolidating Statements of Income

Three Months Ended June 30,

(in millions)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
2017						
Net sales						
External	\$ —	\$ 260.3	\$ 560.6	\$ 936.9	\$—	\$ 1,757.8
Intercompany	—	1.9	101.9	7.9	(111.7)	—
Total net sales	—	262.2	662.5	944.8	(111.7)	1,757.8
Cost of goods sold	—	245.4	580.6	727.1	(111.7)	1,441.4
Gross profit	—	16.8	81.9	217.7	—	316.4
Selling, general and administrative expenses	—	65.8	21.0	18.8	—	105.6
Amortization of intangible assets	—	1.5	22.7	0.6	—	24.8
Restructuring and acquisition-related costs	—	50.1	—	1.6	—	51.7
Operating income (loss)	—	(100.6)	38.2	196.7	—	134.3
Non-operating income (expense), net	—	(61.6)	7.0	(11.0)	—	(65.6)
Income (loss) before income taxes	—	(162.2)	45.2	185.7	—	68.7
Income tax expense (benefit)	—	(30.4)	15.8	17.0	—	2.4
Earnings from equity in subsidiaries	66.2	81.3	8.2	—	(155.7)	—
Net income (loss) before royalties	66.2	(50.5)	37.6	168.7	(155.7)	66.3
Royalties	—	89.2	1.3	(90.5)	—	—
Net income after royalties	66.2	38.7	38.9	78.2	(155.7)	66.3
Net income attributable to noncontrolling interests	—	—	—	(0.1)	—	(0.1)
Net income attributable to AAM	\$ 66.2	\$ 38.7	\$ 38.9	\$ 78.1	\$ (155.7)	\$ 66.2
Other comprehensive income, net of tax	30.4	11.3	21.6	17.1	(50.0)	30.4
Comprehensive income attributable to AAM	\$ 96.6	\$ 50.0	\$ 60.5	\$ 95.2	\$ (205.7)	\$ 96.6

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
2016						
Net sales						
External	\$ —	\$ 308.4	\$ 56.7	\$ 660.3	\$ —	\$ 1,025.4
Intercompany	—	2.8	63.3	4.1	(70.2)	—
Total net sales	—	311.2	120.0	664.4	(70.2)	1,025.4
Cost of goods sold	—	291.8	96.9	515.5	(70.2)	834.0
Gross profit	—	19.4	23.1	148.9	—	191.4
Selling, general and administrative expenses	—	69.0	—	9.7	—	78.7
Amortization of intangible assets	—	1.2	—	—	—	1.2
Operating income (loss)	—	(50.8)	23.1	139.2	—	111.5
Non-operating income (expense), net	—	(23.5)	2.5	1.2	—	(19.8)
Income (loss) before income taxes	—	(74.3)	25.6	140.4	—	91.7
Income tax expense	—	13.2	0.1	7.4	—	20.7
Earnings (loss) from equity in subsidiaries	71.0	86.3	(11.3)	—	(146.0)	—
Net income (loss) before royalties	71.0	(1.2)	14.2	133.0	(146.0)	71.0
Royalties	—	72.2	—	(72.2)	—	—
Net income after royalties	71.0	71.0	14.2	60.8	(146.0)	71.0
Net income attributable to noncontrolling interests	—	—	—	—	—	—
Net income attributable to AAM	\$ 71.0	\$ 71.0	\$ 14.2	\$ 60.8	\$(146.0)	\$ 71.0
Other comprehensive income (loss), net of tax	(4.4)	(4.4)	6.5	0.4	(2.5)	(4.4)
Comprehensive income attributable to AAM	\$ 66.6	\$ 66.6	\$ 20.7	\$ 61.2	\$(148.5)	\$ 66.6

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Condensed Consolidating Statements of Income
Six Months Ended June 30,
(in millions)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
2017						
Net sales						
External	\$ —	\$ 556.9	\$ 610.8	\$ 1,640.0	\$—	\$ 2,807.7
Intercompany	—	2.2	134.7	12.9	(149.8)	—
Total net sales	—	559.1	745.5	1,652.9	(149.8)	2,807.7
Cost of goods sold	—	522.6	641.7	1,266.1	(149.8)	2,280.6
Gross profit	—	36.5	103.8	386.8	—	527.1
Selling, general and administrative expenses	—	138.2	21.0	27.6	—	186.8
Amortization of intangible assets	—	2.8	22.7	0.9	—	26.4
Restructuring and acquisition-related costs	—	65.4	—	2.3	—	67.7
Operating income (loss)	—	(169.9)	60.1	356.0	—	246.2
Non-operating income (expense), net	—	(87.9)	9.4	(13.1)	—	(91.6)
Income (loss) before income taxes	—	(257.8)	69.5	342.9	—	154.6
Income tax expense (benefit)	—	(33.2)	24.2	18.9	—	9.9
Earnings from equity in subsidiaries	144.6	173.0	15.9	—	(333.5)	—
Net income (loss) before royalties	144.6	(51.6)	61.2	324.0	(333.5)	144.7
Royalties	—	168.7	1.3	(170.0)	—	—
Net income after royalties	144.6	117.1	62.5	154.0	(333.5)	144.7
Net income attributable to noncontrolling interests	—	—	—	(0.1)	—	(0.1)
Net income attributable to AAM	\$ 144.6	\$ 117.1	\$ 62.5	\$ 153.9	\$(333.5)	\$ 144.6
Other comprehensive income, net of tax	57.5	38.6	32.1	43.5	(114.2)	57.5
Comprehensive income attributable to AAM	\$ 202.1	\$ 155.7	\$ 94.6	\$ 197.4	\$(447.7)	\$ 202.1

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
2016						
Net sales						
External	\$ —	\$ 591.6	\$ 111.5	\$ 1,291.5	\$—	\$ 1,994.6
Intercompany	—	4.4	123.0	7.8	(135.2)	—
Total net sales	—	596.0	234.5	1,299.3	(135.2)	1,994.6
Cost of goods sold	—	568.1	189.4	1,006.9	(135.2)	1,629.2
Gross profit	—	27.9	45.1	292.4	—	365.4
Selling, general and administrative expenses	—	135.5	—	17.7	—	153.2
Amortization of intangible assets	—	2.2	—	0.1	—	2.3
Operating income (loss)	—	(109.8)	45.1	274.6	—	209.9
Non-operating income (expense), net	—	(47.8)	5.5	0.5	—	(41.8)
Income (loss) before income taxes	—	(157.6)	50.6	275.1	—	168.1
Income tax expense	—	21.0	0.2	14.8	—	36.0
Earnings (loss) from equity in subsidiaries	132.1	179.2	(20.9)	—	(290.4)	—
Net income before royalties	132.1	0.6	29.5	260.3	(290.4)	132.1
Royalties	—	131.5	—	(131.5)	—	—
Net income after royalties	132.1	132.1	29.5	128.8	(290.4)	132.1
Net income attributable to noncontrolling interests	—	—	—	—	—	—
Net income attributable to AAM	\$ 132.1	\$ 132.1	\$ 29.5	\$ 128.8	\$(290.4)	\$ 132.1
Other comprehensive income, net of tax	18.2	18.2	22.2	20.2	(60.6)	18.2
Comprehensive income attributable to AAM	\$ 150.3	\$ 150.3	\$ 51.7	\$ 149.0	\$(351.0)	\$ 150.3

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Condensed Consolidating Balance Sheets
(in millions)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims/Reclassification	Consolidated
June 30, 2017						
Assets						
Current assets						
Cash and cash equivalents	\$—	\$ 159.5	\$ 0.1	\$ 331.0	\$ —	\$ 490.6
Accounts receivable, net	—	155.8	325.5	644.8	—	1,126.1
Intercompany receivables	—	3,979.8	342.2	8.7	(4,330.7)	—
Inventories, net	—	34.5	145.9	204.1	—	384.5
Prepaid expenses and other	—	26.8	19.1	97.0	—	142.9
Total current assets	—	4,356.4	832.8	1,285.6	(4,330.7)	2,144.1
Property, plant and equipment, net	—	222.3	786.0	1,201.0	—	2,209.3
Goodwill	—	—	1,204.7	406.1	—	1,610.8
Intangible assets, net	—	22.2	1,221.9	37.0	—	1,281.1
Intercompany notes and accounts receivable	231.8	—	275.8	—	(507.6)	—
Other assets and deferred charges	—	689.5	131.8	187.5	(364.3)	644.5
Investment in subsidiaries	1,065.3	1,797.3	331.7	—	(3,194.3)	—
Total assets	\$1,297.1	\$7,087.7	\$ 4,784.7	\$ 3,117.2	\$ (8,396.9)	\$ 7,889.8
Liabilities and Stockholders' Equity						
Current liabilities						
Current portion of long-term debt	\$—	\$—	\$ 0.1	\$ 5.1	\$ —	\$ 5.2
Accounts payable	—	142.6	239.7	458.3	—	840.6
Intercompany payables	—	661.7	3,446.0	223.0	(4,330.7)	—
Accrued expenses and other	—	150.7	73.5	157.2	—	381.4
Total current liabilities	—	955.0	3,759.3	843.6	(4,330.7)	1,227.2
Intercompany notes and accounts payable	—	265.7	—	241.9	(507.6)	—
Long-term debt, net	—	4,098.5	4.8	70.3	—	4,173.6
Other long-term liabilities	—	753.1	629.4	173.7	(364.3)	1,191.9
Total liabilities	—	6,072.3	4,393.5	1,329.5	(5,202.6)	6,592.7
Total AAM Stockholders' equity	1,293.4	1,015.4	391.2	1,784.0	(3,190.6)	1,293.4
Noncontrolling interests in subsidiaries	3.7	—	—	3.7	(3.7)	3.7
Total stockholders' equity	1,297.1	1,015.4	391.2	1,787.7	(3,194.3)	1,297.1
Total liabilities and stockholders' equity	\$1,297.1	\$7,087.7	\$ 4,784.7	\$ 3,117.2	\$ (8,396.9)	\$ 7,889.8

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
December 31, 2016						
Assets						
Current assets						
Cash and cash equivalents	\$ —	\$ 84.3	\$ 1.6	\$ 395.3	\$ —	\$ 481.2
Accounts receivable, net	—	126.7	21.9	411.4	—	560.0
Intercompany receivables	—	442.6	326.0	9.1	(777.7)	—
Inventories, net	—	31.3	21.5	129.5	—	182.3
Prepaid expenses and other	—	29.4	0.5	45.9	—	75.8
Total current assets	—	714.3	371.5	991.2	(777.7)	1,299.3
Property, plant and equipment, net	—	213.7	102.9	777.1	—	1,093.7
Goodwill	—	—	147.8	6.2	—	154.0
Intangible assets, net	—	22.8	—	5.7	—	28.5
Intercompany notes and accounts receivable	—	343.9	242.2	—	(586.1)	—
Other assets and deferred charges	—	644.9	39.8	163.7	—	848.4
Investment in subsidiaries	827.6	1,544.4	—	—	(2,372.0)	—
Total assets	\$ 827.6	\$ 3,484.0	\$ 904.2	\$ 1,943.9	\$(3,735.8)	\$ 3,423.9
Liabilities and Stockholders' Equity						
Current liabilities						
Current portion of long-term debt	\$ —	\$ —	\$ —	\$ 3.3	\$ —	\$ 3.3
Accounts payable	—	80.6	35.8	265.9	—	382.3
Intercompany payables	—	324.8	153.4	299.5	(777.7)	—
Accrued expenses and other	—	142.2	4.3	119.4	—	265.9
Total current liabilities	—	547.6	193.5	688.1	(777.7)	651.5
Intercompany notes and accounts payable	321.8	14.6	7.5	242.2	(586.1)	—
Long-term debt, net	—	1,339.7	4.1	57.1	—	1,400.9
Investment in subsidiaries obligation	—	—	124.7	—	(124.7)	—
Other long-term liabilities	—	754.5	0.6	110.6	—	865.7
Total liabilities	321.8	2,656.4	330.4	1,098.0	(1,488.5)	2,918.1
Total stockholders' equity	505.8	827.6	573.8	845.9	(2,247.3)	505.8
Total liabilities and stockholders' equity	\$ 827.6	\$ 3,484.0	\$ 904.2	\$ 1,943.9	\$(3,735.8)	\$ 3,423.9

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

Condensed Consolidating Statements of Cash Flows

Six Months Ended June 30,

(in millions)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
2017						
Net cash provided by (used in) operating activities	\$ —	\$ 222.8	\$ (25.2)	\$ 15.6	\$ —	\$ — 213.2
Investing activities						
Purchases of property, plant and equipment	—	(28.4)	(39.2)	(71.0)	—	(138.6)
Proceeds from sale of property, plant and equipment	—	0.3	0.1	1.1	—	1.5
Purchase buyouts of leased equipment	—	(8.4)	—	—	—	(8.4)
Proceeds from sale of business, net	—	7.5	(1.6)	—	—	5.9
Acquisition of business, net of cash acquired	—	(953.5)	64.6	(6.6)	—	(895.5)
Net cash provided by (used in) investing activities	—	(982.5)	23.9	(76.5)	—	(1,035.1)
Financing activities						
Net debt activity	—	931.4	(0.2)	(10.8)	—	920.4
Debt issuance costs	—	(90.5)	—	—	—	(90.5)
Employee stock option exercises	—	0.9	—	—	—	0.9
Purchase of treasury stock	(6.9)	—	—	—	—	(6.9)
Intercompany activity	6.9	(6.9)	—	—	—	—
Net cash provided by (used in) financing activities	—	834.9	(0.2)	(10.8)	—	823.9
Effect of exchange rate changes on cash	—	—	—	7.4	—	7.4
Net increase (decrease) in cash and cash equivalents	—	75.2	(1.5)	(64.3)	—	9.4
Cash and cash equivalents at beginning of period	—	84.3	1.6	395.3	—	481.2
Cash and cash equivalents at end of period	\$ —	\$ 159.5	\$ 0.1	\$ 331.0	\$ —	\$ — 490.6

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

	Holdings	AAM Inc.	Guarantor Subsidiaries	Non-Guarantor Subsidiaries	Elims	Consolidated
2016						
Net cash provided by operating activities	\$ —	\$ 140.2	\$ 11.6	\$ 31.7	\$ —	\$ 183.5
Investing activities						
Purchases of property, plant and equipment	—	(18.8)	(9.6)	(77.3)	—	(105.7)
Proceeds from sale of property, plant and equipment	—	—	0.2	0.4	—	0.6
Proceeds from government grants	—	—	—	2.8	—	2.8
Final distribution of Reserve Yield Plus Fund	—	1.0	—	—	—	1.0
Intercompany activity	—	—	(2.0)	—	2.0	—
Net cash used in investing activities	—	(17.8)	(11.4)	(74.1)	2.0	(101.3)
Financing activities						
Net debt activity	—	(0.4)	(0.2)	26.4	—	25.8
Employee stock option exercises	—	0.1	—	—	—	0.1
Purchase of treasury stock	(5.0)	—	—	—	—	(5.0)
Intercompany activity	5.0	(5.0)	—	2.0	(2.0)	—
Net cash provided by (used in) financing activities	—	(5.3)	(0.2)	28.4	(2.0)	20.9
Effect of exchange rate changes on cash	—	—	—	2.8	—	2.8
Net increase (decrease) in cash and cash equivalents	—	117.1	—	(11.2)	—	105.9
Cash and cash equivalents at beginning of period	—	52.0	—	230.5	—	282.5
Cash and cash equivalents at end of period	\$ —	\$ 169.1	\$ —	\$ 219.3	\$ —	\$ 388.4

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

This management's discussion and analysis (MD&A) should be read in conjunction with the unaudited condensed consolidated financial statements and notes appearing elsewhere in this Quarterly Report and our Annual Report on Form 10-K for the year ended December 31, 2016.

Unless the context otherwise requires, references to "we," "our," "us" or "AAM" shall mean collectively (i) American Axle & Manufacturing Holdings, Inc. (Holdings), a Delaware corporation, (ii) American Axle & Manufacturing, Inc. (AAM, Inc.), a Delaware corporation, and its direct and indirect subsidiaries, and, as of April 6, 2017, (iii) Metaldyne Performance Group, Inc. (MPG) and its direct and indirect subsidiaries. AAM Inc. and MPG are wholly-owned subsidiaries of Holdings.

COMPANY OVERVIEW

On April 6, 2017, Alpha SPV I, Inc., a wholly-owned subsidiary of Holdings, merged with and into MPG, with MPG as the surviving corporation in the merger. Upon completion of the merger, MPG became a wholly-owned subsidiary of Holdings. As a result, we are now a global Tier I supplier to the automotive, commercial and industrial markets. We design, engineer, validate and manufacture driveline, metal forming, powertrain and casting products, employing over 25,000 associates, operating at more than 90 facilities in 17 countries, to support our customers on global and regional platforms with a continued focus on delivering operational excellence, technology leadership and quality.

We are the principal supplier of driveline components to General Motors Company (GM) for its full-size rear-wheel drive (RWD) light trucks and SUVs manufactured in North America, supplying substantially all of GM's rear axle and four-wheel drive and all-wheel drive (4WD/AWD) axle requirements for these vehicle platforms. We also supply GM with various products from our Metal Forming and Powertrain segments. Sales to GM were approximately 53% of our consolidated net sales in the first six months of 2017, and were approximately 67% of our consolidated net sales in the first six months and the full year of 2016.

We are the sole-source supplier to GM for certain axles and other driveline products for the life of each GM vehicle program covered by Lifetime Program Contracts and Long Term Program Contracts (collectively, LPCs). Substantially all of our sales to GM are made pursuant to the LPCs. The LPCs have terms equal to the lives of the relevant vehicle programs or their respective derivatives, which typically run five to seven years, and require us to remain competitive with respect to technology, design, quality and cost.

We also supply driveline system products to FCA US LLC (FCA) for heavy-duty Ram full-size pickup trucks and its derivatives, the AWD Jeep Cherokee, and a passenger car driveshaft program. In addition, we sell various products to FCA from each of our Metal Forming, Powertrain and Casting segments. Sales to FCA were approximately 14% of our consolidated net sales in the first six months of 2017, 20% of our consolidated net sales in the first six months of 2016 and 18% of our consolidated net sales for the full year of 2016.

In addition to GM and FCA, we are a supplier to several major automotive Original Equipment Manufacturers (OEMs) and Tier 1 suppliers. Our consolidated net sales to customers other than GM increased to \$1,316.8 million in the first six months of 2017 as compared to \$657.1 million in the first six months of 2016.

RESULTS OF OPERATIONS — THREE MONTHS ENDED JUNE 30, 2017 AS COMPARED TO THREE MONTHS ENDED JUNE 30, 2016

Net Sales Net sales increased to \$1,757.8 million in the second quarter of 2017 as compared to \$1,025.4 million in the second quarter of 2016. The impact of the MPG acquisition on net sales for the second quarter 2017 was approximately \$683.8 million. Excluding the impact of the MPG acquisition, our sales in the second quarter of 2017, as compared to the second quarter of 2016, reflect the impact of program launches from our new business backlog, as well as an increase in metal market pass-throughs to our customers, which was partially offset by the impact of annual productivity price-downs for certain programs

Cost of Goods Sold Cost of goods sold was \$1,441.4 million in the second quarter of 2017 as compared to \$834.0 million in the second quarter of 2016. The impact on cost of goods sold of the MPG acquisition was approximately \$593.5 million in the second quarter 2017, which includes approximately \$24.9 million for the step-up of inventory to fair value as a result of purchase accounting.

Excluding the impact of the MPG acquisition, the change in cost of goods sold principally reflects the impact of increased production volumes and an increase of approximately \$25 million related to metal market pass-through costs, which was partially offset by approximately \$10 million related to lower net manufacturing costs, including the impact of foreign exchange. For the three months ended June 30, 2017, material costs were approximately 61% of total costs of goods sold as compared to approximately 69% for the three months ended June 30, 2016.

Gross Profit Gross profit increased to \$316.4 million in the second quarter of 2017 as compared to \$191.4 million in the second quarter of 2016. Gross margin was 18.0% in the second quarter of 2017 as compared to 18.7% in the second quarter of 2016. The impact on gross profit of the MPG acquisition was approximately \$90.3 million in the second quarter 2017. Excluding the impact of the MPG acquisition, the change in gross profit in the second quarter of 2017, as compared to the second quarter of 2016, reflects the benefit of increased contribution margin on higher production volumes for the light truck and SUV programs that we support. Gross profit and gross margin were also impacted by the other factors discussed in Net Sales and Cost of Goods Sold above.

Selling, General and Administrative Expenses (SG&A) SG&A (including research and development (R&D)) was \$105.6 million or 6.0% of net sales in the second quarter of 2017 as compared to \$78.7 million or 7.7% of net sales in the second quarter of 2016. R&D spending was approximately \$41.0 million in the second quarter of 2017 as compared to \$35.1 million in the second quarter of 2016. The change in SG&A in the second quarter of 2017, as compared to the second quarter of 2016, reflects an increase of approximately \$30 million associated with the acquisition of MPG. SG&A expense also reflects the increase in R&D spending in the second quarter of 2017, as compared to the second quarter of 2016, which was partially offset by the achievement of synergies as a result of the acquisition of MPG.

Amortization of Intangible Assets As a result of the USM Mexico acquisition on March 1, 2017 and the MPG acquisition on April 6, 2017, we recognized \$1,276.3 million of intangible assets. Amortization expense for the three months ended June 30, 2017 was \$24.8 million as compared to \$1.2 million for the three months ended June 30, 2016. The increase in amortization expense was attributable to the increase in intangible assets as a result of these acquisitions.

Restructuring and Acquisition-Related Costs Restructuring and acquisition-related costs were \$51.7 million in the second quarter of 2017 and we did not incur any such costs in the second quarter of 2016. In the fourth quarter of 2016, AAM initiated actions under a global restructuring program focused on creating a more streamlined organization in addition to reducing our cost structure and preparing for upcoming acquisition integration activities. As part of our restructuring actions, we incurred severance charges of approximately \$0.3 million, as well as

implementation costs, including professional expenses, of approximately \$1.4 million during the three months ended June 30, 2017.

On March 1, 2017, we completed the acquisition of 100% of USM Mexico Manufacturing LLC (USM Mexico) and on April 6, 2017, we completed the acquisition of 100% of the equity interests of MPG. During the three months ended June 30, 2017, we incurred \$36.4 million of acquisition-related costs, \$4.2 million of acquisition-related severance charges and \$9.4 million of integration expenses associated with these acquisitions. Acquisition-related costs primarily consist of advisory, legal, accounting, valuation and certain other professional or consulting fees incurred. Also included in acquisition-related costs is a one-time charge of approximately \$20 million for MPG stock-based compensation that was accelerated and settled as a result of the acquisition. Integration expenses reflect costs incurred for information technology systems, ongoing operational activities, and consulting fees incurred in conjunction with the acquisitions.

Operating Income Operating income increased to \$134.3 million in the second quarter of 2017 as compared to \$111.5 million in the second quarter of 2016. Operating margin was 7.6% in the second quarter of 2017 as compared to 10.9% in the second quarter of 2016. The changes in operating income and operating margin were due to factors discussed in Net Sales, Cost of Goods Sold, SG&A, Amortization of Intangible Assets and Restructuring and Acquisition-Related Costs above.

Interest Expense and Investment Income Interest expense was \$56.9 million in the second quarter of 2017 as compared to \$23.4 million in the second quarter of 2016. Investment income was \$0.8 million in the second quarter of 2017 as compared to \$1.5 million in the second quarter of 2016.

The change in interest expense in the second quarter of 2017, as compared to the second quarter of 2016, primarily reflects interest expense incurred on \$1,650.0 million of borrowings under our New Senior Secured Credit Facilities on April 6, 2017 (as defined and described in Liquidity and Capital Resources in this MD&A), as well as on \$700.0 million in aggregate principal amount of 6.25% senior notes and \$500.0 million in aggregate principal amount of 6.50% senior notes (the Notes), which were issued on March 23, 2017.

The weighted-average interest rate of our long-term debt outstanding was 5.6% in the second quarter of 2017 and 6.6% in the second quarter of 2016.

Debt Refinancing and Redemption Costs In the second quarter of 2017, we expensed \$2.7 million of prepayment premiums related to the extinguishment of MPG's existing debt at the date of acquisition.

Other Income (Expense), Net Other income (expense), net, which includes the net effect of foreign exchange gains and losses and our proportionate share of earnings from equity in unconsolidated subsidiaries, was expense of \$6.8 million in the second quarter of 2017 as compared to income of \$2.1 million in the second quarter of 2016. The change in other income (expense), net in the three months ended June 30, 2017, as compared to the three months ended June 30, 2016, primarily relates to foreign exchange remeasurement losses as a result of the U.S. dollar weakening against the Mexican Peso and Euro.

Income Tax Expense Income tax expense was \$2.4 million in the three months ended June 30, 2017 as compared to \$20.7 million in the three months ended June 30, 2016. Our effective income tax rate was 3.6% in the second quarter of 2017 as compared to 22.6% in the second quarter of 2016. Our effective income tax rate for the three months ended June 30, 2017 is lower than our effective income tax rate for the three months ended June 30, 2016 primarily as a result of an increase in the proportionate share of income attributable to lower tax rate jurisdictions. In addition, subsequent to the acquisition of MPG, we re-evaluated our valuation allowance position with regard to jurisdictions in which consolidated state tax returns are filed and recorded an income tax benefit for the three months ended June 30, 2017. This was partially offset by a discrete tax adjustment related to certain non-deductible transaction and acquisition-related costs. Our income tax expense and effective tax rate for the three months ended June 30, 2017, and June 30, 2016, reflect the impact of favorable foreign tax rates, partially offset by our inability to realize a tax benefit for current foreign losses.

Net Income Attributable to AAM and Earnings Per Share (EPS) Net income attributable to AAM was \$66.2 million in the second quarter of 2017 as compared to \$71.0 million in the second quarter of 2016. Diluted EPS was \$0.59 per share in the second quarter of 2017 as compared to \$0.90 per share in the second quarter of 2016. As a result of the issuance of AAM common shares in conjunction with the acquisition of MPG, our EPS denominator increased by approximately 32 million shares on a weighted-average basis for the three months ended June 30, 2017.

Net income attributable to AAM and EPS for the second quarters of 2017 and 2016 were primarily impacted by the factors discussed in Net Sales, Cost of Goods Sold, SG&A, Amortization of Intangible Assets, Restructuring and

Acquisition-Related Costs, Other Income (Expense), Net and Income Tax Expense above, as well as the issuance of the additional shares as a result of the acquisition of MPG.

RESULTS OF OPERATIONS — SIX MONTHS ENDED JUNE 30, 2017 AS COMPARED TO SIX MONTHS ENDED JUNE 30, 2016

Net Sales Net sales increased to \$2,807.7 million in the first six months of 2017 as compared to \$1,994.6 million in the first six months of 2016. The impact of the MPG acquisition on net sales in the first six months of 2017 was approximately \$683.8 million. Excluding the impact of the MPG acquisition, our sales in the first six months of 2017, as compared to the first six months of 2016, reflect an increase of approximately 7% in production volumes for the light truck and SUV programs we currently support, as well as an increase in metal market pass-throughs to our customers, which was partially offset by the impact of annual productivity price-downs for certain programs.

Cost of Goods Sold Cost of goods sold was \$2,280.6 million in the first six months of 2017 as compared to \$1,629.2 million in the first six months of 2016. The impact on cost of goods sold of the MPG acquisition was approximately \$593.5 million in the first six months of 2017, which includes approximately \$24.9 million for the step-up of inventory to fair value as a result of purchase accounting.

Excluding the impact of the MPG acquisition, the change in cost of goods sold principally reflects approximately \$50 million related to increased production volumes and an increase of approximately \$40 million related to metal market pass-through costs, partially offset by approximately \$20 million associated with lower net manufacturing costs, including the impact of foreign exchange, and productivity initiatives. For the six months ended June 30, 2017, material costs were approximately 64% of total costs of goods sold as compared to approximately 69% for the six months ended June 30, 2016.

Gross Profit Gross profit increased to \$527.1 million in the first six months of 2017 as compared to \$365.4 million in the first six months of 2016. Gross margin was 18.8% in the first six months of 2017 as compared to 18.3% in the first six months of 2016. The impact of the MPG acquisition on gross profit in the first six months of 2017 was approximately \$90.3 million. Excluding the impact of the MPG acquisition, the change in gross profit in the first six months of 2017, as compared to the first six months of 2016, reflects the benefit of increased contribution margin on higher production volumes for the North American light truck and SUV programs that we support. Gross profit and gross margin were also impacted by the other factors discussed in Net Sales and Cost of Goods Sold above.

Selling, General and Administrative Expenses (SG&A) SG&A (including research and development (R&D)) was \$186.8 million or 6.7% of net sales in the first six months of 2017 as compared to \$153.2 million or 7.7% of net sales in the first six months of 2016. R&D spending was approximately \$82.0 million in the first six months of 2017 as compared to \$66.0 million in the first six months of 2016. The change in SG&A for the six months ended June 30, 2017, as compared to the six months ended June 30, 2016, reflects an increase of approximately \$30 million associated with the acquisition of MPG. SG&A expense also reflects the increase in R&D spending in the second quarter of 2017, as compared to the second quarter of 2016, which was partially offset by the achievement of synergies as a result of the acquisition of MPG.

Amortization of Intangible Assets As a result of the USM Mexico acquisition on March 1, 2017 and the MPG acquisition on April 6, 2017, we recognized \$1,276.3 million of intangible assets. Amortization expense for the six months ended June 30, 2017 was \$26.4 million as compared to \$2.3 million for the six months ended June 30, 2016. The increase in amortization expense was attributable to the increase in intangible assets as a result of these acquisitions.

Restructuring and Acquisition-Related Costs Restructuring and acquisition-related costs were \$67.7 million in the first six months of 2017 and we did not incur any such costs in the first six months of 2016. We incurred severance charges of approximately \$1.5 million, as well as implementation costs, including professional expenses, of approximately \$7.0 million during the six months ended June 30, 2017. Since inception of the global restructuring program, we have incurred severance charges totaling \$2.1 million and implementation costs totaling \$17.2 million. We expect to incur approximately \$15 to \$20 million of additional charges under our global restructuring program in 2017.

On March 1, 2017, we completed the acquisition of 100% of USM Mexico Manufacturing LLC (USM Mexico) and on April 6, 2017, we completed the acquisition of 100% of the equity interests of MPG. During the six months ended June 30, 2017, we incurred \$39.7 million of acquisition-related costs, acquisition-related severance charges of \$4.2 million and \$15.3 million of integration expenses associated with these acquisitions. Acquisition-related costs primarily consist of advisory, legal, accounting, valuation and certain other professional or consulting fees incurred. Also included in acquisition-related costs is a one-time charge of approximately \$20 million for MPG stock-based compensation that was accelerated and settled as a result of the acquisition. Integration expenses reflect costs incurred

for information technology systems, ongoing operational activities, and consulting fees incurred in conjunction with the acquisitions. We expect to incur additional acquisition and integration charges of approximately \$30 to \$40 million in 2017.

Operating Income Operating income increased to \$246.2 million in the first six months of 2017 as compared to \$209.9 million in the first six months of 2016. Operating margin was 8.8% in the first six months of 2017 as compared to 10.5% in the first six months of 2016. The changes in operating income and operating margin were due to factors discussed in Net Sales, Cost of Goods Sold, SG&A, Amortization of Intangible Assets and Restructuring and Acquisition-Related Costs above.

Interest Expense and Investment Income Interest expense was \$82.4 million in the first six months of 2017 as compared to \$47.0 million in the first six months of 2016. Investment income was \$1.4 million in the first six months of 2017 as compared to \$2.1 million in the first six months of 2016.

The change in interest expense in the first six months of 2017, as compared to the first six months of 2016, primarily reflects interest expense incurred on borrowings under our New Senior Secured Credit Facilities on April 6, 2017 (as defined and described in Liquidity and Capital Resources in this MD&A), as well as on \$700.0 million in aggregate principal amount of 6.25% senior notes and \$500.0 million in aggregate principal amount of 6.50% senior notes (the Notes), which were issued on March 23, 2017. We expect our interest expense, after considering the borrowings under our New Senior Secured Credit Facilities and the issuance of the Notes, to be approximately \$235.0 million on an annual basis.

The weighted-average interest rate of our long-term debt outstanding was 5.9% for the first six months of 2017 and 6.6% for the first six months of 2016.

Debt Refinancing and Redemption Costs In the first six months of 2017, we expensed \$2.7 million of prepayment premiums related to the extinguishment of MPG's existing debt at the date of acquisition.

Other Income (Expense), Net Other income (expense), net, which includes the net effect of foreign exchange gains and losses and our proportionate share of earnings from equity in unconsolidated subsidiaries, was expense of \$7.9 million in the first six months of 2017 as compared to income of \$3.1 million in the first six months of 2016. The change in other income (expense), net in the six months ended June 30, 2017, as compared to the six months ended June 30, 2016, primarily relates to foreign exchange remeasurement losses as a result of the U.S. dollar weakening against the Mexican Peso and Euro.

Income Tax Expense Income tax expense was \$9.9 million in the six months ended June 30, 2017 as compared to \$36.0 million in the six months ended June 30, 2016. Our effective income tax rate was 6.4% in the first six months of 2017 as compared to 21.4% in the first six months of 2016. Our effective income tax rate for the six months ended June 30, 2017 is lower than our effective income tax rate for the six months ended June 30, 2016 primarily as a result of an increase in the proportionate share of income attributable to lower tax rate jurisdictions. In addition, subsequent to the acquisition of MPG, we re-evaluated our valuation allowance position with regard to jurisdictions in which consolidated state tax returns are filed and recorded an income tax benefit for the six months ended June 30, 2017. This was partially offset by a discrete tax adjustment related to certain non-deductible transaction and acquisition-related costs. Our income tax expense and effective tax rate for the six months ended June 30, 2017, and June 30, 2016, reflect the impact of favorable foreign tax rates, partially offset by our inability to realize a tax benefit for current foreign losses.

Net Income Attributable to AAM and Earnings Per Share (EPS) Net income attributable to AAM increased to \$144.6 million in the first six months of 2017 as compared to \$132.1 million in the first six months of 2016. Diluted EPS was \$1.51 per share in the first six months of 2017 as compared to \$1.68 per share in the first six months of 2016. As a result of the issuance of AAM common shares in conjunction with the acquisition of MPG, our EPS denominator increased by approximately 16 million shares on a weighted-average basis for the six months ended June 30, 2017.

Net income attributable to AAM and EPS for the six months ended 2017 and 2016 were primarily impacted by the factors discussed in Net Sales, Cost of Goods Sold, SG&A, Amortization of Intangible Assets, Restructuring and Acquisition-Related Costs, Other Income (Expense), Net and Income Tax Expense above, as well as the issuance of the additional shares as a result of the acquisition of MPG.

SEGMENT REPORTING

Prior to the acquisition of MPG on April 6, 2017, we operated in one reportable segment: the manufacture, engineer, design and validation of driveline systems and related components and chassis modules for light trucks, sport utility vehicles (SUVs), crossover vehicles, passenger cars and commercial vehicles. Subsequent to the acquisition of MPG,

our business was organized into four operating segments, each representing a reportable segment under ASC 280 Segment Reporting. The four segments are Driveline, Metal Forming, Powertrain and Casting. The results of each segment are regularly reviewed by the chief operating decision maker to assess the performance of the segment and make decisions regarding the allocation of resources.

Our product offerings by segment are as follows:

Driveline products consist primarily of axles, driveshafts, power transfer units, rear drive modules, and electric and hybrid driveline products and systems for light trucks, SUVs, crossover vehicles, passenger cars and commercial vehicles;

Metal Forming products consist primarily of axle shafts, ring and pinion gears, differential gears, transmission gears and shafts and suspension components for Original Equipment Manufacturers and Tier 1 automotive suppliers;

The Powertrain segment products consist primarily of transmission module and differential assemblies, transmission valve bodies, connecting rod forging and assemblies, torsional vibration dampers, and variable valve timing products for Original Equipment Manufacturers and Tier I automotive suppliers; and

The Casting segment produces both thin wall castings and high strength ductile iron castings, as well as differential cases, steering knuckles, control arms, and turbo charger housings for the global light, commercial and industrial markets.

The following table represents sales by reportable segment for the three and six months ended June 30, 2017 and 2016:

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2017	2016	2017	2016
Driveline	\$1,021.5	\$969.5	\$2,020.8	\$1,884.3
Metal Forming	369.3	141.4	519.3	277.2
Powertrain	283.6	—	283.6	—
Casting	225.6	—	225.6	—
Eliminations	(142.2)	(85.5)	(241.6)	(166.9)
Net Sales	\$1,757.8	\$1,025.4	\$2,807.7	\$1,994.6

The increase in Driveline sales for the three and six months ended June 30, 2017, as compared to the three and six months ended June 30, 2016, primarily reflect an increase in production volumes for the light truck and SUV programs we currently support, as well as an increase in metal market pass-throughs to our customers, which was partially offset by the impact of annual productivity price-downs for certain programs.

The increase in net sales in our Metal Forming segment in both the three months and six months ended June 30, 2017, as compared to the three and six months ended June 30, 2016, was primarily attributable to the purchase of MPG.

For both the three and six months ended June 30, 2017, the increase in sales in both the Powertrain and Casting segments, as compared to the three and six months ended June 30, 2016, was entirely attributable to the acquisition of MPG as AAM did not operate in these segments prior to the acquisition.

We use Segment Adjusted EBITDA as the measure of earnings to assess the performance of each segment and determine the resources to be allocated to the segments. Segment Adjusted EBITDA is defined as EBITDA for our reportable segments excluding the impact of restructuring and acquisition-related costs, debt refinancing and redemption costs and non-recurring items.

The amounts for Segment Adjusted EBITDA for the three and six months ended June 30, 2017 and 2016 are as follows:

Three Months		Six Months	
Ended June 30,		Ended June 30,	
2017	2016	2017	2016

Driveline	\$178.9	\$135.7	\$332.1	\$257.5
Metal Forming	69.4	29.1	99.8	57.1
Powertrain	51.9	—	51.9	—
Casting	25.5	—	25.5	—
Segment adjusted EBITDA	\$325.7	\$164.8	\$509.3	\$314.6

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The increase in Segment Adjusted EBITDA in the Driveline segment for the three and six months ended June 30, 2017, as compared to the three and six months ended June 30, 2016, was primarily attributable to contribution margin on increased volumes for light truck and SUV programs we currently support.

Metal Forming experienced an increase in Segment Adjusted EBITDA for both the three and six months ended June 30, 2017, as compared to the three and six months ended June 30, 2016, primarily attributable to the MPG acquisition.

For both the three and six months ended June 30, 2017, the increase in Segment Adjusted EBITDA in both the Powertrain and Casting segments, as compared to the three and six months ended June 30, 2016, was entirely attributable to the acquisition of MPG as AAM did not operate in these segments prior to the acquisition.

Reconciliation of Non-GAAP and GAAP Information

In addition to results reported in accordance with accounting principles generally accepted in the United States of America (GAAP) in this MD&A, we have provided certain non-GAAP financial measures such as EBITDA and Segment Adjusted EBITDA. Such information is reconciled to its closest GAAP measure in accordance with Securities and Exchange Commission rules below.

We define EBITDA to be earnings before interest expense, income taxes, depreciation and amortization. Segment Adjusted EBITDA is defined as EBITDA excluding the impact of restructuring and acquisition-related costs, debt refinancing and redemption costs, and non-recurring items. We believe that EBITDA is a meaningful measure of performance as it is commonly utilized by management and investors to analyze operating performance and entity valuation. Our management, the investment community and the banking institutions routinely use EBITDA, together with other measures, to measure our operating performance relative to other Tier 1 automotive suppliers. We believe that Segment Adjusted EBITDA is a meaningful measure as it is used to assess business and operating performance of the segments, and for operational planning and decision-making purposes. Non-GAAP financial measures are not and should not be considered a substitute for any GAAP measure. Additionally, non-GAAP financial measures as presented by AAM may not be comparable to similarly titled measures reported by other companies.

	Three Months Ended June 30,		Six Months Ended June 30,	
	2017	2016	2017	2016
Net income attributable to AAM	\$66.2	\$71.0	\$144.6	\$132.1
Interest expense	56.9	23.4	82.4	47.0
Income tax expense	2.4	20.7	9.9	36.0
Depreciation and amortization	124.6	50.7	180.8	100.5
EBITDA	\$250.1	\$165.8	\$417.7	\$315.6
Restructuring and acquisition-related costs	51.7	—	67.7	—
Debt refinancing and redemption costs	2.7	—	2.7	—
Non-recurring items:				
Acquisition-related fair value inventory adjustment	24.9	—	24.9	—
Impact of change in accounting principle	(3.7)	—	(3.7)	—
Investment gain related to the final distribution of the Reserve Yield Plus Fund	—	(1.0)	—	(1.0)
Segment Adjusted EBITDA	\$325.7	\$164.8	\$509.3	\$314.6

LIQUIDITY AND CAPITAL RESOURCES

Our primary liquidity needs are to fund debt service obligations, capital expenditures and working capital requirements. We believe that operating cash flow, available cash and cash equivalent balances and available committed borrowing capacity under our New Senior Secured Credit Facilities (as defined below) will be sufficient to meet these needs.

Operating Activities In the first six months of 2017, net cash provided by operating activities increased to \$213.2 million as compared to \$183.5 million in the first six months of 2016. The following factors impacted cash provided by operating activities in the first six months of 2017 as compared to the first six months of 2016:

Net income Net income was \$144.7 million in the first six months of 2017 as compared to \$132.1 million in the first six months of 2016. The change in net income in the first six months of 2017, as compared to the first six months of 2016, was the result of the factors discussed in the Results of Operations - Six Months Ended June 30, 2017 as Compared to Six Months Ended June 30, 2016 section of this MD&A.

Accounts payable As a result of the USM Mexico and MPG acquisitions, we settled accounts payable balances with USM Mexico and MPG totaling approximately \$35 million, which was reflected as a reduction of cash flow from operating activities in our Condensed Consolidated Statement of Cash Flows for the six months ended June 30, 2017. See Note 3 - Business Combinations for further detail.

Restructuring and acquisition-related costs In the second half of 2017, we expect to incur cash charges under our global restructuring program, as well as acquisition and integration related cash charges, totaling approximately \$45 to \$60 million.

Income taxes Based on the status of audits outside the U.S., and the protocol of finalizing audits by the relevant tax authorities, it is not possible to estimate the timing or impact of changes, if any, to previously recorded uncertain tax positions. As of June 30, 2017 and December 31, 2016, we have recorded a liability for unrecognized income tax benefits and related interest and penalties of \$50.8 million and \$30.7 million, respectively. In January 2016, we completed negotiations with the Mexican tax authorities to settle transfer pricing audits. Including these settlements, we made payments of \$26.1 million in the first six months of 2016 to the Mexican tax authorities related to transfer pricing matters.

Although it is difficult to estimate with certainty the amount of our tax liabilities for the years that remain subject to audit, we do not expect the settlements will be materially different from what we have recorded in unrecognized tax benefits. We will continue to monitor the progress and conclusions of current and future audits and will adjust our estimated liability as necessary.

Pension and Other Postretirement Benefits (OPEB) Due to the availability of our pre-funded pension balances (previous contributions in excess of prior required pension contributions) related to our U.S. pension plans, as well as contributions we made in 2015 for one of our U.K. pension plans, the cash payments to our pension trusts will be insignificant in 2017. We expect our cash payments for other postretirement benefit obligations in 2017, net of GM cost sharing, to be approximately \$16 million.

Investing Activities In the first six months of 2017, we completed our acquisitions of MPG and USM Mexico. The purchase price for MPG was approximately \$1.5 billion, which included a cash portion of approximately \$750 million, net of cash acquired. We acquired USM Mexico for a purchase price of \$144.1 million, net of cash acquired, which was funded entirely with available cash.

Capital expenditures were \$138.6 million in the first six months of 2017 as compared to \$105.7 million in the first six months of 2016. We expect our capital spending, inclusive of the impact of the MPG acquisition, to be approximately 8% of sales in 2017, which includes support for our global program launches within our new and incremental business backlog.

Financing Activities In the first six months of 2017, net cash provided by financing activities was \$823.9 million as compared to \$20.9 million in the first six months of 2016. The following factors impacted cash provided by financing activities in the first six months of 2017 as compared to the first six months of 2016:

New Senior Secured Credit Facilities In connection with our acquisition of MPG (the Acquisition) on April 6, 2017, Holdings and American Axle & Manufacturing, Inc. (AAM, Inc.) entered into a credit agreement (the Credit Agreement), among AAM, Inc., as borrower, Holdings, each financial institution party thereto as a lender (the Lenders) and administrative agent, pursuant to which Holdings and certain of its restricted subsidiaries (including certain subsidiaries of MPG acquired as part of the Acquisition) are required to guarantee the borrowings of AAM, Inc. thereunder and Holdings, AAM, Inc. and certain

of their restricted subsidiaries are required to pledge their assets (including, without limitation, after-acquired assets), subject to certain exceptions and limitations. In connection with the Credit Agreement, Holdings, AAM, Inc. and certain of their restricted subsidiaries entered into a Collateral Agreement and Guarantee Agreement with the financial institutions party thereto as collateral agent and administrative agent.

Pursuant to the Credit Agreement, the Lenders agreed to provide a \$100.0 million term loan A facility (the Term Loan A Facility), a \$1.55 billion term loan B facility (the Term Loan B Facility) and a \$900 million multi-currency revolving credit facility (the Revolving Credit Facility, and together with the Term Loan A Facility and the Term Loan B Facility, the New Senior Secured Credit Facilities). The proceeds of the Term Loan A Facility and the Term Loan B Facility were used to finance a portion of the consideration for the Acquisition, pay transaction costs, redeem in full MPG Holdco I Inc.'s 7.375% Senior Notes due 2022, and repay the existing indebtedness of AAM, Inc. under its Amended and Restated Credit Agreement, dated as of January 9, 2004, amended and restated as of September 13, 2013 and as further amended, among AAM, Inc., as borrower, Holdings, and each financial institution party thereto as a lender and administrative agent, as well as repay existing indebtedness of MPG under its Credit Agreement, dated as of October 20, 2014 and as amended as of May 8, 2015, among MPG Holdco I Inc., as guarantor, MPG, the subsidiary guarantors party thereto, and each financial institution party thereto as a lender and administrative agent. The proceeds of the Revolving Credit Facility will be used for general corporate purposes. We paid debt issuance costs of \$53.6 million in the first six months of 2017 related to the New Senior Secured Credit Facilities.

The Term Loan A Facility and the Revolving Credit Facility will mature on April 6, 2022, and the Term Loan B Facility will mature on April 6, 2024. Borrowings under the New Senior Secured Credit Facilities bear interest at rates based on the applicable Eurodollar rate or alternate base rate, as AAM may elect, in each case plus an applicable margin determined based on AAM's total net leverage ratio. The alternate base rate is the greatest of (a) the prime rate of a major United States financial institution, (b) the Federal Reserve Bank of New York rate plus 0.50% and (c) the adjusted Eurodollar rate plus 1.00%. The applicable margin for Eurodollar-based loans under the New Senior Secured Credit Facilities will be between 1.25% and 2.25% with respect to any loan under the Term Loan A Facility, 2.25% with respect to any loan under the Term Loan B Facility, and between 2.00% and 3.00% with respect to any loan under the Revolving Credit Facility. The applicable margin for loans subject to alternate base rate will be between 0.25% and 1.25% with respect to any loan under the Term Loan A Facility, 1.25% with respect to any loan under the Term Loan B Facility, and between 1.00% and 2.00% with respect to any loan under the Revolving Credit Facility.

The Credit Agreement requires certain mandatory prepayments of outstanding loans under the Term Loan A Facility and the Term Loan B Facility, subject to certain exceptions, based on a percentage of the annual excess cash flow of Holdings and its restricted subsidiaries (with step-downs to 0% based upon the total net leverage ratio, and with no prepayment required if annual excess cash flow is under a specified minimum threshold), the net cash proceeds of certain asset sales and casualty and condemnation events, subject to reinvestment rights and certain other exceptions, and the net cash proceeds of any issuance of debt not otherwise permitted under the Credit Agreement.

The Credit Agreement permits AAM, Inc. to incur incremental term loan borrowings and/or increase commitments under the Revolving Credit Facility, subject to certain limitations and the satisfaction of certain conditions, in an aggregate amount not to exceed (i) \$600 million, plus (ii) certain voluntary prepayments, plus (iii) additional amounts subject to pro forma compliance with a first lien net leverage ratio for Holdings and its restricted subsidiaries.

The Credit Agreement contains customary affirmative and negative covenants, including, among others, financial covenants based on total net leverage and cash interest expense coverage ratios and limitations on the ability of Holdings, AAM, Inc. or their restricted subsidiaries to make certain investments, declare or pay dividends or distributions on capital stock, redeem or repurchase capital stock and certain debt obligations, incur liens, incur indebtedness, or merge, make certain acquisitions or certain sales of assets. The Credit Agreement includes customary events of default, the occurrence of which would permit the lenders to, among other things, declare the principal,

accrued interest and other obligations to be immediately due and payable. Upon such default, the lenders may also seek customary remedies with respect to the collateral under the Collateral Agreement.

In the second quarter of 2017, we elected to prepay \$5.0 million of the outstanding principal on our Term Loan A Facility and \$15.5 million of the outstanding principal on our Term Loan B Facility. These payments satisfy our obligation for principal payments under the Term Loan A Facility and Term Loan B Facility for the next four quarters. As a result, there are no amounts related to the Term Loan A Facility or Term Loan B Facility in the Current portion of long-term debt line item in our Condensed Consolidated Balance Sheet as of June 30, 2017.

At June 30, 2017, we had \$869.8 million available under the Revolving Credit Facility. This availability reflects a reduction of \$30.2 million for standby letters of credit issued against the facility.

The New Senior Secured Credit Facilities provide back-up liquidity for our foreign credit facilities. We intend to use the availability of long-term financing under the New Senior Secured Credit Facilities to refinance any current maturities related to such debt agreements that are not otherwise refinanced on a long-term basis in their local markets, except where otherwise reclassified to current portion of long-term debt on our Condensed Consolidated Balance Sheet.

6.50% Notes due 2027 and 6.25% Notes due 2025 On March 23, 2017, we issued \$700.0 million in aggregate principal amount of 6.25% senior notes due 2025 and \$500.0 million in aggregate principal amount of 6.50% senior notes due 2027 (the Notes). Proceeds from the Notes were used primarily to fund the cash consideration related to AAM's acquisition of MPG, related fees and expenses, refinancing certain existing indebtedness of MPG and borrowings under our previous revolving credit facility, which has been replaced by our new Revolving Credit Facility, together with borrowings under the New Senior Secured Credit Facilities. We paid debt issuance costs of \$36.9 million in the first six months of 2017 related to the Notes.

Repayment of MPG Indebtedness Upon the acquisition of MPG, we assumed approximately \$1.9 billion of existing MPG indebtedness, which we repaid in its entirety on the date of acquisition. This indebtedness was comprised of approximately \$0.2 billion of a Euro denominated term loan, approximately \$1.0 billion of a U.S. dollar denominated term loan and approximately \$0.7 billion of outstanding MPG bonds. Upon settlement of the debt, we paid approximately \$24.6 million of accrued interest. In addition, we also incurred and paid approximately \$2.7 million of fees, which have been presented in the Debt refinancing and redemption costs line item within our condensed consolidated statements of income for both the three and six months ended June 30, 2017.

Foreign credit facilities We utilize local currency credit facilities to finance the operations of certain foreign subsidiaries. At June 30, 2017, \$52.6 million was outstanding under our foreign credit facilities and an additional \$95.9 million was available.

Treasury stock Treasury stock increased by \$6.9 million in the first six months of 2017 to \$198.0 million as compared to \$191.1 million at year-end 2016, due to the withholding and repurchase of shares of AAM stock to satisfy employee tax withholding obligations as part of the merger consideration paid for the acquisition of Metaldyne Performance Group, Inc. as well as tax withholding obligations due upon the vesting of performance shares and restricted stock units.

CYCLICALITY AND SEASONALITY

Our operations are cyclical because they are directly related to worldwide automotive production, which is itself cyclical and dependent on general economic conditions and other factors. Our business is also moderately seasonal as our major OEM customers historically have an extended shutdown of operations (typically 1-2 weeks) in conjunction with their model year changeover and an approximate one-week shutdown in December. Accordingly, our quarterly results may reflect these trends.

LITIGATION AND ENVIRONMENTAL MATTERS

We are involved in various legal proceedings incidental to our business. Although the outcome of these matters cannot be predicted with certainty, we do not believe that any of these matters, individually or in the aggregate, will have a material adverse effect on our financial condition, results of operations or cash flows.

We are subject to various federal, state, local and foreign environmental and occupational safety and health laws, regulations and ordinances, including those regulating air emissions, water discharge, waste management and environmental cleanup. We will continue to closely monitor our environmental conditions to ensure that we are in compliance with all laws, regulations and ordinances. We have made, and will continue to make, capital and other expenditures (including recurring administrative costs) to comply with environmental requirements. Such expenditures were not significant in the second quarter of 2017.

On April 6, 2017, we completed our acquisition of MPG. A subsidiary of MPG, Grede Wisconsin Subsidiaries LLC (Grede Wisconsin), had been under investigation by the U.S. Department of Justice and the Environmental Protection Agency for alleged Clean Air Act violations and alleged obstruction of justice relating to the January 2012 removal of debris from the roof of a heat treat oven that was purported to contain asbestos at a now closed Grede facility in Berlin, Wisconsin. The United States Attorney, Eastern District of Wisconsin, indicted Grede LLC and Grede II LLC, the parent company of Grede Wisconsin, in connection with this matter. We are defending this matter.

Item 3. Quantitative and Qualitative Disclosures About Market Risk

MARKET RISK

Our business and financial results are affected by fluctuations in world financial markets, including interest rates and currency exchange rates. Our hedging policy has been developed to manage these risks to an acceptable level based on management's judgment of the appropriate trade-off between risk, opportunity and cost. We do not hold financial instruments for trading or speculative purposes.

Currency Exchange Risk From time to time, we use foreign currency forward contracts to reduce the effects of fluctuations in exchange rates, primarily relating to the Mexican Peso, Euro, Brazilian Real, British Pound Sterling, Thai Baht, Swedish Krona, Chinese Yuan, Polish Zloty and Indian Rupee. At June 30, 2017, we had currency forward and option contracts with a notional amount of \$217.2 million outstanding. The potential decrease in fair value of foreign exchange contracts, assuming a 10% adverse change in the foreign currency exchange rates, would be approximately \$19.8 million at June 30, 2017 and was approximately \$14.2 million at December 31, 2016.

Future business operations and opportunities, including the expansion of our business outside North America, may further increase the risk that cash flows resulting from these global operations may be adversely affected by changes in currency exchange rates. If and when appropriate, we intend to manage these risks by creating hedges in the structure of our global operations, utilizing local currency funding of these expansions and various types of foreign exchange contracts.

Interest Rate Risk We are exposed to variable interest rates on certain credit facilities. In the second quarter of 2017, we entered into a variable-to-fixed interest rate swap to reduce the variability of cash flows associated with interest payments on our variable rate debt. As of June 30, 2017, we have the following notional amounts hedged in relation to our variable-to-fixed interest rate swap: \$750.0 million through May 2018, \$600.0 million through May 2019, \$450.0 million through May 2020 and \$200.0 million through May 2021. The pre-tax earnings and cash flow impact of a one-percentage-point increase in interest rates (approximately 18% of our weighted-average interest rate at June 30, 2017) on our long-term debt outstanding, would be approximately \$9.3 million at June 30, 2017 and was approximately \$0.6 million at December 31, 2016, on an annualized basis.

Item 4. Controls and Procedures

Disclosure Controls and Procedures

Under the direction of our Chief Executive Officer and Chief Financial Officer, we evaluated our disclosure controls and procedures and internal control over financial reporting and concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) or 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act")) were effective as of June 30, 2017.

Changes in Internal Control over Financial Reporting

In conjunction with our recent acquisition activity, we completed the design and implementation of internal controls over financial reporting specific to business combinations. The implemented controls address the various elements of a business combination, including but not limited to: 1) calculation of the consideration transferred; 2) identifying and properly accounting for transactions that are separate from the business combination; 3) use and oversight of competent and qualified personnel in performing the valuation of assets acquired and liabilities assumed; 4) review of inputs and outputs to the valuation models; 5) identifying and disclosing provisional amounts; and 6) tracking

measurement period adjustments.

Our acquisition of MPG was completed on April 6, 2017. We are currently integrating policies, processes and operations for the combined company and will continue to evaluate our internal control over financial reporting as we develop and execute our integration plans. Until such time as the companies are fully integrated, we will maintain the operational integrity of each company's legacy internal controls over financial reporting.

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PART II. OTHER INFORMATION

Item 1A. Risk Factors

There were no material changes from the risk factors previously disclosed in our December 31, 2016 Form 10-K.

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

In 2016, AAM's Board of Directors authorized a share repurchase program of up to \$100 million of AAM's common shares through December 31, 2018 as part of AAM's overall capital allocation strategy. The repurchase of shares may be made in the open market or in privately negotiated transactions and will be funded through available cash balances and cash flow from operations. The timing and amount of any share repurchases will be determined based on market and economic conditions, share price, alternative uses of capital and other factors. There were no repurchases under the authorized share repurchase program during the second quarter of 2017 and there is approximately \$98.5 million available for repurchase.

In the second quarter of 2017, we withheld and repurchased shares of AAM stock to satisfy employee tax withholding obligations as part of the merger consideration paid for the acquisition of Metaldyne Performance Group, Inc. as well as tax withholding obligations due upon the vesting of restricted stock units. The following table provides information about our equity security purchases during the quarter ended June 30, 2017:

ISSUER PURCHASES OF EQUITY SECURITIES

Period	Total Number of Shares (or Units) Purchased	Average Price Paid per Share (or Unit)	Total Number of Shares (or Units) Purchased as Part of Publicly Announced Plans or Programs	Maximum Number (or Approximate Dollar Value) of Shares (or Units) that May Yet Be Purchased Under the Plans or Programs (in millions)
April 1 - April 30, 2017	98,763	\$ 16.88	—	\$ —
May 1 - May 31, 2017	563	17.53	—	—
June 1 - June 30, 2017	957	15.74	—	—
Total	100,283	\$ 16.87	—	\$ —

Item 6. Exhibits

Exhibits required by Item 601 of Regulation S-K are listed in the Exhibit Index.

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.

AMERICAN AXLE & MANUFACTURING HOLDINGS, INC.
(Registrant)

/s/ Christopher J. May
Christopher J. May
Vice President & Chief Financial Officer
(also in the capacity of Chief Accounting Officer)
July 28, 2017

EXHIBIT INDEX

Number	Description of Exhibit
*18	Letter from Deloitte & Touche LLP Regarding Change in Accounting Principle
*31.1	Certification of David C. Dauch, Chairman of the Board & Chief Executive Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act
*31.2	Certification of Christopher J. May, Vice President & Chief Financial Officer Pursuant to Rule 13a-14(a) of the Securities Exchange Act
*32	Certifications of David C. Dauch, Chairman of the Board & Chief Executive Officer and Christopher J. May, Vice President & Chief Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
**101.INS	XBRL Instance Document
**101.SCH	XBRL Taxonomy Extension Schema Document
**101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
**101.LAB	XBRL Taxonomy Extension Label Linkbase Document
**101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
**101.DEF	XBRL Taxonomy Extension Definition Linkbase Document
*	Filed herewith
**	Submitted electronically with this Report.