# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

# FORM 10-Q

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

	For the quarterly period en or	ded September 30, 2016	
□ TF 193		13 OR 15(d) OF THE SECURITIES EXCHANGE ACT (	OF
	For the transition period from _	to	
	Commission file n	umber 1-15399	
	PACKAGING CORPORATION (Exact Name of Registrant as		
	Delaware	36-4277050	
	(State or Other Jurisdiction of Incorporation or Organization)	(I.R.S. Employer Identification No.)	
	1955 West Field Court, Lake Forest, Illinois	60045	
	(Address of Prinicpal Executive Offices)  Registrant's telephone num  (847) 482		
		b be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the harmonic reports), and (2) has been subject to such filing requirements for the past 90 day	
submitted and po		oosted on its corporate Web site, if any, every Interactive Data File required to be uring the preceding 12 months (or for such shorter period that the registrant was	
	e by check mark whether the registrant is a large accelerated filer, an acc rge accelerated filer," "accelerated filer," and "smaller reporting company	elerated filer, a non-accelerated filer, or a smaller reporting company. See the many in Rule 12b-2 of the Exchange Act. (Check one):	
Large accelerate	d filer x	Accelerated filer	
Non-accelerated	filer $\qed$ (Do not check if a smaller reporting comparing $\qed$	any) Smaller reporting company	

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

As of October 28, 2016 the Registrant had outstanding 94,226,326 shares of common stock, par value \$0.01 per share.

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All reports we file with the Securities and Exchange Commission (SEC) are available free of charge via the Electronic Data Gathering Analysis and Retrieval (EDGAR) System on the SEC website at www.sec.gov. We also provide copies of our SEC filings at no charge upon request and make electronic copies of our reports available through our website at www.packagingcorp.com as soon as reasonably practicable after filing such material with the SEC.

# PART I FINANCIAL INFORMATION

# Item 1. FINANCIAL STATEMENTS

# **Packaging Corporation of America**

# **Consolidated Statements of Income and Comprehensive Income**

(unaudited, dollars in millions, except per-share data)

	7	Three Months Ended September 30				ine Months En	ded S	ed September 30	
		2016		2015		2016		2015	
Statements of Income:									
Net sales	\$	1,484.0	\$	1,470.8	\$	4,302.4	\$	4,350.8	
Cost of sales		(1,154.5)		(1,142.5)		(3,353.8)		(3,427.9)	
Gross profit		329.5		328.3		948.6		922.9	
Selling, general, and administrative expenses		(116.9)		(112.7)		(346.0)		(345.9)	
Other income (expense), net		(6.2)		3.8		(15.2)		(2.9)	
Income from operations		206.4		219.4		587.4		574.1	
Interest expense, net		(23.4)		(21.7)		(67.5)		(63.2)	
Income before taxes		183.0		197.7		519.9		510.9	
Income tax provision		(63.7)		(69.9)		(181.0)		(178.3)	
Net income	\$	119.3	\$	127.8	\$	338.9	\$	332.6	
Less net income attributable to noncontrolling interests		_		_		_		_	
Net income attributable to Packaging Corporation of America	\$	119.3	\$	127.8	\$	338.9	\$	332.6	
Net income per common share attributable to Packaging Corporation of America common shareholders:									
Basic	\$	1.27	\$	1.31	\$	3.59	\$	3.39	
Diluted	\$	1.26	\$	1.31	\$	3.58	\$	3.39	
Dividends declared per common share	\$	0.63	\$	0.55	\$	1.73	\$	1.65	
Statements of Comprehensive Income:									
Net income	\$	119.3	\$	127.8	\$	338.9	\$	332.6	
Other comprehensive income, net of tax:									
Foreign currency translation adjustment		_		_		_		2.8	
Reclassification adjustments to cash flow hedges included in net income, net of tax of \$0.5 million, \$0.5 million, \$1.6 million, and \$1.6 million		0.9		0.9		2.6		2.6	
Amortization of pension and postretirement plans actuarial loss and prior service cost, net of tax of \$1.0 million, \$1.4 million, \$3.1 million, and \$4.2 million	e	1.8		2.1		5.0		6.5	
Changes in unfunded employee benefit obligations net of tax of \$2.0 million		_		_		3.1		_	
Other comprehensive income		2.7		3.0		10.7		11.9	
Less net income attributable to noncontrolling interests		_		_		_		_	
Comprehensive income attributable to Packaging Corporation of America	\$	122.0	\$	130.8	\$	349.6	\$	344.5	

See accompanying condensed notes to unaudited quarterly consolidated financial statements.

# **Packaging Corporation of America**

# **Consolidated Balance Sheets**

(unaudited, dollars and shares in millions, except per-share data)

	Sej	September 30, 2016		ecember 31, 2015
ASSETS				
Current assets:				
Cash and cash equivalents	\$	279.8	\$	184.2
Accounts receivable, net of allowance for doubtful accounts and customer deductions of \$9.4 million and \$10.3 million as of September 30, 2016 and December 31, 2015, respectively		713.2		636.5
Inventories		690.6		676.8
Prepaid expenses and other current assets		45.1		28.8
Federal and state income taxes receivable		18.3		28.2
Total current assets		1,747.0	-	1,554.5
Property, plant, and equipment, net		2,878.7		2,832.1
Goodwill		692.1		544.0
Intangible assets, net		354.8		270.8
Other long-term assets		74.6		70.9
Total assets	\$	5,747.2	\$	5,272.3
LIABILITIES AND EQUITY				
Current liabilities:				
Current maturities of long-term debt	\$	25.8	\$	6.5
Capital lease obligations		1.2		1.2
Accounts payable		327.0		294.2
Dividends payable		59.8		53.4
Accrued interest		18.8		13.1
Accrued liabilities		204.9		193.5
Total current liabilities	_	637.5		561.9
Long-term liabilities:				
Long-term debt		2,625.8		2,290.4
Capital lease obligations		20.7		21.6
Deferred income taxes		360.9		347.0
Compensation and benefits		312.2		358.6
Other long-term liabilities		60.1		59.5
Total long-term liabilities		3,379.7		3,077.1
Commitments and contingent liabilities				
Stockholders' equity:				
Common stock, par value \$0.01 per share, 300.0 million shares authorized, 94.2 million and 96.1 million shares issued as of September 30, 2016 and December 31, 2015, respectively		0.9		1.0
Additional paid in capital		446.0		439.9
Retained earnings		1,396.9		1,317.3
Accumulated other comprehensive loss		(114.2)		(124.9)
Total stockholders' equity		1,729.6	-	1,633.3
Noncontrolling interests	\$	0.4	\$	_
Total equity	\$	1,730.0	\$	1,633.3
Total liabilities and equity	\$	5,747.2	\$	5,272.3

See accompanying condensed notes to unaudited quarterly consolidated financial statements.

# Packaging Corporation of America Consolidated Statements of Cash Flows

(unaudited, dollars in millions)

	Nine Months End	led September 30
	2016	2015
Cash Flows from Operating Activities:		
Net income	\$ 338.9	\$ 332.6
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation, depletion, and amortization of intangibles	264.3	267.9
Amortization of deferred financing costs	5.8	5.8
Share-based compensation expense	15.0	13.7
Deferred income tax provision	6.5	1.2
Pension and postretirement benefits expense, net of contributions	(33.5)	24.0
Other, net	3.7	(16.4)
Changes in operating assets and liabilities, net of acquisitions:		
Decrease (increase) in assets —		
Accounts receivable	(36.0)	(37.5)
Inventories	4.1	(31.0)
Prepaid expenses and other current assets	(11.2)	(16.8)
Increase (decrease) in liabilities —		
Accounts payable	13.6	(14.1)
Accrued liabilities	10.8	5.2
Federal and state income taxes payable / receivable	6.2	7.4
Net cash provided by operating activities	588.2	542.0
Cash Flows from Investing Activities:		
Additions to property, plant, and equipment	(188.1)	(217.9)
Proceeds from sale of a business	_	23.0
Acquisition of business, net of cash acquired	(385.6)	_
Additions to other long-term assets	(9.4)	(9.2)
Other, net	0.4	1.3
Net cash used for investing activities	(582.7)	(202.8)
Cash Flows from Financing Activities:		
Repayments of debt and capital lease obligations	(30.7)	(30.7)
Proceeds from issuance of debt	385.0	_
Financing costs paid	(2.1)	_
Common stock dividends paid	(156.7)	(147.3)
Repurchases of common stock	(100.3)	(98.1)
Excess tax benefits from stock-based awards	5.3	5.6
Shares withheld to cover employee restricted stock taxes	(10.2)	(7.4)
Other, net	(0.2)	0.7
Net cash provided by (used for) financing activities	90.1	(277.2)
Net increase in cash and cash equivalents	95.6	62.0
Cash and cash equivalents, beginning of period	184.2	124.9
Cash and cash equivalents, end of period	\$ 279.8	\$ 186.9

See accompanying condensed notes to unaudited quarterly consolidated financial statements.

#### **Condensed Notes to Unaudited Quarterly Consolidated Financial Statements**

#### 1. Nature of Operations and Basis of Presentation

Packaging Corporation of America ("we," "us," "our," PCA," or the "Company") was incorporated on January 25, 1999. In April 1999, PCA acquired the containerboard and corrugated packaging products business of Pactiv Corporation (Pactiv), formerly known as Tenneco Packaging, Inc., a wholly owned subsidiary of Tenneco Inc. We are a large diverse manufacturer of both packaging and paper products. We are headquartered in Lake Forest, Illinois and we operate primarily in the United States.

We report our business in three reportable segments: Packaging, Paper, and Corporate and Other. Our Packaging segment produces a wide variety of corrugated packaging products. The Paper segment manufactures and sells a range of white papers, including communication-based papers and pressure sensitive papers, and market pulp. In October 2016, we announced that we will cease softwood market pulp operations at our Wallula, Washington mill and permanently shutdown the No. 1 machine, with pulp capacity of approximately 100,000 tons, effective December 1, 2016. Corporate and Other includes support staff services and related assets and liabilities, transportation assets, and activity related to other ancillary support operations. For more information about our segments, see Note 16 Segment Information.

The consolidated financial statements of PCA as of September 30, 2016 and for the three and nine months ended September 30, 2016 and 2015 are unaudited but include all adjustments (consisting only of normal recurring adjustments) that management considers necessary for a fair presentation of such financial statements. The preparation of the consolidated financial statements involves the use of estimates and accruals. Actual results may vary from those estimates. These financial statements have been prepared in accordance with accounting principles generally accepted in the United States for interim financial information and with Article 10 of SEC Regulation S-X. Accordingly, they do not include all of the information and footnotes required by accounting principles generally accepted in the United States for complete audited financial statements. Operating results for the three and nine months ended September 30, 2016 are not necessarily indicative of the results that may be expected for the year ending December 31, 2016. These consolidated financial statements should be read in conjunction with our Annual Report on Form 10-K for the year ended December 31, 2015.

The consolidated financial statements include the accounts of PCA and its majority-owned subsidiaries after elimination of intercompany balances and transactions.

#### 2. Acquisitions

#### **TimBar Acquisition**

On August 29, 2016, PCA acquired substantially all of the assets of TimBar Corporation ("TimBar"), a large independent corrugated products producer with six corrugated products production facilities, for a purchase price of \$385.6 million, net of cash acquired. Funding for the acquisition came from a new \$385.0 million five-year term loan facility. TimBar provides solutions to customers in the higher margin retail, industrial packaging and display and fulfillment markets with a focus on a multi-color graphics and technical innovation. With the August acquisition of TimBar, we acquired a 51% controlling interest in a wholesale distributor of polywoven plastic bags used in the transportation industry. TimBar financial results are included in the Packaging segment from the date of acquisition.

The Company accounted for TimBar using the acquisition method of accounting in accordance with ASC 805, *Business Combinations*. The total purchase price has been preliminarily allocated to tangible and intangible assets acquired and liabilities assumed based on respective fair values, as follows (dollars in millions):

Goodwill	\$ 148.1
Other intangible assets	101.6
Property, plant and equipment	96.9
Other net assets	39.0
Net assets acquired	\$ 385.6

The purchase price allocation presented above is preliminary and is subject to the finalization of various valuations and assessments, primarily related to property, plant, and equipment and intangible assets. Our current estimates and assumptions may change as more information becomes available. We expect to finalize the valuations within the 12-month period following the acquisition date.

Goodwill is calculated as the excess of the purchase price over the fair value of the net assets acquired. Among the factors that contributed to the recognition of goodwill were TimBar's commitment to continuous improvement and innovation in their operations, as well as the expected increases in PCA's containerboard integration levels. Goodwill is expected to be deductible for tax purposes.

Other intangible assets, primarily customer relationships, were assigned an estimated weighted average useful life of 14.5 years.

Property, plant and equipment were assigned estimated useful lives ranging from two to 24 years.

#### 3. Earnings Per Share

The following table sets forth the computation of basic and diluted income per common share for the periods presented (dollars and shares in millions, except per share data):

	Three Months Ended September 30					Nine Months Ended September 30			
		2016	2015		2015 201			2015	
Numerator:									
Net income attributable to Packaging Corporation of America	\$	119.3	\$	127.8	\$	338.9	\$	332.6	
Less: distributed and undistributed earnings allocated to participating securities		(1.1)		(1.5)		(3.4)		(4.0)	
Net income attributable to common shareholders	\$	118.2	\$	126.3	\$	335.5	\$	328.6	
Denominator:									
Weighted average basic common shares outstanding		93.4		96.5		93.6		96.8	
Effect of dilutive securities		0.2		0.1		0.1		0.1	
Weighted average diluted common shares outstanding		93.6		96.6		93.7		96.9	
Basic income per common share	\$	1.27	\$	1.31	\$	3.59	\$	3.39	
Diluted income per common share	\$	1.26	\$	1.31	\$	3.58	\$	3.39	

# 4. Other Income (Expense), Net

The components of other income (expense), net, were as follows (dollars in millions):

	1	Three Months E	ndec	d September 30	]	Nine Months End	ded Se	eptember 30
		2016		2015		2016		2015
Facilities closure costs (a)	\$	(1.6)	\$	_	\$	(5.0)	\$	_
Acquisition-related costs (b)		(2.0)		_		(2.3)		_
Multiemployer pension withdrawal (c)		_		_		(0.9)		_
Asset disposals and write-offs		(0.6)		(5.0)		(3.5)		(9.7)
Integration-related and other costs (d)		_		(2.4)		_		(9.0)
Sale of St. Helens paper mill site (e)		_		6.7		_		6.7
DeRidder restructuring (f)		_		3.8		_		3.6
Refundable state tax credit (g)		_		_		_		3.6
Other		(2.0)		0.7		(3.5)		1.9
Total	\$	(6.2)	\$	3.8	\$	(15.2)	\$	(2.9)

- (a) The three and nine months ended September 30, 2016 include facilities closure costs related to corrugated products facilities and a paper products facility.
- (b) The three and nine months ended September 30, 2016 include acquisition-related costs for the TimBar Corporation acquisition.
- (c) The nine months ended September 30, 2016 include costs related to our withdrawal from a multiemployer pension plan for one of our corrugated products facilities.
- (d) The three and nine months ended September 30, 2015 include Boise acquisition integration-related and other costs. These costs primarily relate to professional fees, severance, retention, relocation, travel, and other integration-related costs.
- (e) The three and nine months ended September 30, 2015 include a gain on the sale of the paper mill site in St. Helens, Oregon, where we ceased paper production in December 2012.
- (f) The three and nine months ended September 30, 2015 include amounts from restructuring activities at our mill in DeRidder, Louisiana.
- (g) The nine months ended September 30, 2015 include a tax credit from the State of Louisiana related to our capital investment and the jobs retained at the DeRidder, Louisiana mill.

#### 5. Income Taxes

For the three months ended September 30, 2016 and 2015 we recorded \$63.7 million and \$69.9 million of income tax expense and had an effective tax rate of 34.8% and 35.4%, respectively. For the nine months ended September 30, 2016 and 2015, we recorded \$181.0 million and \$178.3 million of income tax expense and had an effective tax rate of 34.8% and 34.9%, respectively. The decrease in our effective tax rate for the three and nine months ended September 30, 2016 compared with the same periods in 2015, was primarily due to the 2016 benefit of federal income tax credits that were not available at September 30, 2015 due to the expiration and later reinstatement on December 18, 2015 as part of the Protecting Americans from Tax Hikes Act (PATH Act).

Our effective tax rate may differ from the federal statutory income tax rate of 35.0%, due primarily to the effect of the domestic manufacturing deduction and state and local income taxes.

During the three and nine months ended September 30, 2016 there were no significant changes to our uncertain tax positions. For more information, see Note 6, Income Taxes, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K.

During the nine months ended September 30, 2016 and 2015 cash paid for taxes, net of refunds received, was \$158.8 million and \$163.7 million, respectively.

#### 6. Inventories

We value our raw materials, work in process, and finished goods inventories using lower of cost, as determined by the average cost method, or market. Supplies and materials are valued at the first-in, first-out (FIFO) or average cost methods.

The components of inventories were as follows (dollars in millions):

	ember 30, 2016	De	cember 31, 2015
Raw materials	\$ 259.8	\$	260.6
Work in process	14.9		14.2
Finished goods	188.0		189.7
Supplies and materials	227.9		212.3
Inventories	\$ 690.6	\$	676.8

# 7. Property, Plant, and Equipment

The components of property, plant, and equipment were as follows (dollars in millions):

	Sep	otember 30, 2016	D	December 31, 2015
Land and land improvements	\$	148.6	\$	146.4
Buildings		687.8		640.9
Machinery and equipment		4,902.2		4,747.1
Construction in progress		151.2		119.1
Other		62.6		61.3
Property, plant, and equipment, at cost		5,952.4		5,714.8
Less accumulated depreciation		(3,073.7)		(2,882.7)
Property, plant, and equipment, net	\$	2,878.7	\$	2,832.1

Depreciation expense for the three months ended September 30, 2016 and 2015 was \$79.9 million and \$79.6 million, respectively. During the nine months ended September 30, 2016 and 2015, depreciation expense was \$240.5 million and \$243.5 million, respectively. During the nine months ended September 30, 2016 and 2015, we recognized \$0.8 million and \$9.0 million, respectively, of incremental depreciation expense from shortening the useful lives of assets related to facilities closures in 2016 and restructuring activities at our DeRidder, Louisiana mill in 2015.

At September 30, 2016 and December 31, 2015 purchases of property, plant, and equipment included in accounts payable were \$20.1 million and \$15.0 million, respectively.

#### 8. Goodwill and Intangible Assets

#### Goodwill

Changes in the carrying amount of our goodwill are as follows (dollars in millions):

	Go	odwill
Balance at December 31, 2015	\$	544.0
Acquisition (a)		148.1
Balance at September 30, 2016	\$	692.1

(a) In connection with the August 2016 acquisition of TimBar Corporation (TimBar), the Company recorded \$148.1 million of goodwill in the Packaging segment.

Goodwill represents the excess of the cost of an acquired business over the fair value of the identifiable tangible and intangible assets acquired and liabilities assumed in a business combination. At September 30, 2016 and December 31, 2015 we had \$636.9 million and \$488.8 million of goodwill recorded in our Packaging segment, respectively. At both September 30, 2016 and December 31, 2015 we had \$55.2 million of goodwill recorded in our Paper segment.

#### **Intangible Assets**

Intangible assets are primarily comprised of customer relationships and trademarks and trade names.

The weighted average remaining useful life, gross carrying amount, and accumulated amortization of our intangible assets were as follows (dollars in millions):

		ptember 30, 201		December 31, 2015						
	Weighted Average Remaining Useful Life (in Years)		Gross Carrying Amount		Accumulated Amortization	Weighted Average Remaining Useful Life (in Years)		Gross Carrying Amount		Accumulated Amortization
Customer relationships (b)	13.3	\$	408.0	\$	73.2	13.3	\$	311.5	\$	57.3
Trademarks and trade names (b)	11.7		25.6		6.9	13.6		21.8		5.2
Other (b)	2.9		1.5		0.2	1.2		0.2		0.2
Total intangible assets (excluding goodwill)	13.2	\$	435.1	\$	80.3	13.6	\$	333.5	\$	62.7

<sup>(</sup>b) In connection with the August 2016 acquisition of TimBar, the Company recorded intangible assets of \$96.5 million for customer relationships, \$3.8 million for trade names, and \$1.3 million for other intangibles.

During the three months ended September 30, 2016 and 2015, amortization expense was \$6.3 million and \$5.7 million, respectively. During the nine months ended September 30, 2016 and 2015, amortization expense was \$17.5 million and \$17.1 million, respectively.

# 9. Accrued Liabilities

The components of accrued liabilities were as follows (dollars in millions):

	Sep	tember 30, 2016	Dec	ember 31, 2015
Compensation and benefits	\$	114.7	\$	106.4
Medical insurance and workers' compensation		32.0		31.1
Franchise, property, and sales and use taxes		19.4		16.0
Customer volume discounts and rebates		20.1		15.3
Environmental liabilities and asset retirement obligations		7.1		7.9
Severance, retention, and relocation		3.3		7.3
Other		8.3		9.5
Total	\$	204.9	\$	193.5

#### 10. Debt

At September 30, 2016 and December 31, 2015, our long-term debt and interest rates on that debt were as follows (dollars in millions):

		Septembe	er 30, 2016	December 31, 2015			
		Amount	Interest Rate	Amount	Interest Rate		
Revolving Credit Facility, due October 2018	\$		—%	<u> </u>	—%		
Revolving Credit Facility, due August 2021		_	_	_	_		
Five-Year Term Loan, due October 2018		_	_	25.0	1.80		
Five-Year Term Loan, due August 2021		385.0	1.77	_	_		
Seven-Year Term Loan, due October 2020		632.1	2.15	637.0	2.05		
6.50% Senior Notes due March 2018		150.0	6.50	150.0	6.50		
3.90% Senior Notes, net of discounts of \$0.2 million and \$0.3 million as of September 30, 2016 and December 31, 2015, due June 2022		399.8	3.90	399.7	3.90		
4.50% Senior Notes, net of discount of \$1.4 million and \$1.5 million as of September 30, 2016 and December 31, 2015, due November 2023		698.6	4.50	698.5	4.50		
3.65% Senior Notes, net of discount of \$0.9 million and \$1.0 million as of September 30, 2016 and December 31, 2015, due September 2024		399.1	3.65	399.0	3.65		
Total	<u>-</u>	2,664.6	3.44%	2,309.2	3.67%		
Less current portion		25.8		6.5			
Less unamortized debt issuance costs		13.0		12.3			
Total long-term debt	\$	2,625.8		\$ 2,290.4			

On August 29, 2016 (the "Amendment Date"), PCA amended and restated its five-year credit agreement dated October 18, 2013 (the "Credit Agreement"), to finance its acquisition of TimBar Corporation. The amended agreement includes: (i) a new \$385.0 million unsecured five-year term loan facility (the "New Term Loan"), which PCA fully borrowed on the Amendment Date to finance its acquisition of TimBar Corporation; (ii) the existing \$650.0 million unsecured seven-year term loan facility initially borrowed by PCA under the original Credit Agreement (the "Existing Term Loan"), which terminates in October 2020 and under which \$633.7 million was outstanding as of the Amendment Date; and (iii) a \$350.0 million unsecured revolving credit facility, which was extended through the fifth anniversary of the Amendment Date, and is available for borrowings for general corporate purposes. Except for \$25.0 million of letters of credit, no amounts were outstanding under the revolving credit facility as of the Amendment Date.

Loans under the amended Credit Agreement bear interest at LIBOR plus an applicable margin. The applicable margin is determined based upon the public ratings of PCA's senior long-term unsecured debt.

The amended Credit Agreement contains customary affirmative and negative covenants, including limitations on liens, mergers and consolidations, sales of assets and subsidiary indebtedness. The amended Credit Agreement has two financial covenants, a maximum ratio of debt to EBITDA and a minimum interest coverage ratio, each calculated on a consolidated basis.

PCA may prepay loans under the amended Credit Agreement at any time without premium or penalty.

During the nine months ended September 30, 2016, we made principal payments of \$25.0 million and \$4.9 million on our five-year term loan due October 2018 (which is no longer outstanding) and our seven-year term loan due October 2020, respectively. During the nine months ended September 30, 2015, we made principal payments of \$25.0 million on our five-year term loan due October 2018, and \$4.9 million on our seven-year term loan, due October 2020. For the nine months ended September 30, 2016 and 2015 cash payments for interest were \$59.5 million and \$58.6 million, respectively.

Included in interest expense, net, are amortization of treasury lock settlements and amortization of financing costs. For both the three months ended September 30, 2016 and 2015 amortization of treasury lock settlements was \$1.4 million, and for both the nine months ended September 30, 2016 and 2015, amortization of treasury lock settlements was \$4.2 million. For both the three months ended September 30, 2016 and 2015 amortization of financing costs was \$0.5 million, and during the nine months ended for both September 30, 2016 and 2015, amortization of financing costs was \$1.4 million and \$1.3 million, respectively.

At September 30, 2016 we had \$1,647.5 million of fixed-rate senior notes and \$1,017.1 million of variable-rate term loans outstanding. At September 30, 2016 the fair value of our fixed-rate debt was estimated to be \$1,767.1 million. The difference between the book value and fair value is due to the difference between the period-end market interest rate and the stated rate of our fixed-rate debt. We estimated the fair value of our fixed-rate debt using quoted market prices (Level 2 inputs) within the fair value hierarchy, which is further defined in Note 2, Summary of Significant Accounting Policies, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K. The fair value of our variable-rate term debt approximates the carrying amount as our cost of borrowing is variable and approximates current market rates.

For more information on our long-term debt and interest rates on that debt, see Note 10, Debt, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K.

#### 11. Employee Benefit Plans and Other Postretirement Benefits

The components of net periodic benefit cost for our pension plans were as follows (dollars in millions):

	 Pension Plans									
	 Three Months	d September 30		Nine Months En	eptember 30					
	2016		2015		2016		2015			
Service cost	\$ 6.2	\$	6.1	\$	18.4	\$	17.9			
Interest cost	10.2		11.6		30.6		34.6			
Expected return on plan assets	(12.3)		(13.3)		(37.1)		(39.8)			
Net amortization of unrecognized amounts										
Prior service cost	1.4		1.4		4.3		4.2			
Actuarial loss	1.5		2.1		4.3		6.4			
Net periodic benefit cost	\$ 7.0	\$	7.9	\$	20.5	\$	23.3			

PCA makes pension plan contributions that are sufficient to fund its actuarially determined costs, generally equal to the minimum amounts required by the Employee Retirement Income Security Act (ERISA). From time to time, PCA may make additional discretionary contributions based on the funded status of the plans, tax deductibility, income from operations, and other factors. We made contributions of \$49.7 million and \$53.0 million to our qualified plans during the three

and nine months ended September 30, 2016 which exceeded our 2016 minimum pension contributions of \$27.0 million. In 2015, we did not make any contributions to our qualified plans.

The components of net periodic benefit cost for our postretirement plans were as follows (dollars in millions):

	Postretirement Plans									
		Three Months	Ende	ed September 30		Nine Months En	ded Se	otember 30		
		2016		2015		2016		2015		
Service cost	\$	0.1	\$	0.4	\$	0.5	\$	1.3		
Interest cost		0.1		0.3		0.5		0.9		
Net amortization of unrecognized amounts										
Prior service cost		(0.1)		_		(0.1)		_		
Actuarial (income) loss		_		_		(0.4)		0.1		
Net periodic benefit cost	\$	0.1	\$	0.7	\$	0.5	\$	2.3		

In April 2016, the Company provided notice to eligible participants that the Salaried Retiree Medical Plan would be frozen as of December 31, 2016. As a result of the freeze, eligible plan participants who do not retire and elect coverage before December 31, 2016 lose benefits attributable to service already rendered. In accordance with Accounting Standards Codification (ASC) 715, "Compensation--Retirement Benefits", the Company remeasured the Salaried Retiree Medical Plan benefit obligation using current assumptions, resulting in a decrease in the benefit obligation of \$5.1 million with a corresponding increase in accumulated other comprehensive income of \$3.1 million and deferred income taxes of \$2.0 million.

#### 12. Share-Based Compensation

The Company has a long-term equity incentive plan, which allows for grants of restricted stock, performance awards, stock appreciation rights, and stock options to directors, officers, and employees, as well as others who engage in services for PCA. The Company has not granted option awards since 2007. The plan, as amended, terminates May 1, 2023 and authorizes 10.6 million shares of common stock for grant over the life of the plan. As of September 30, 2016, 1.2 million shares were available for future issuance under the plan. Forfeitures are added back to the pool of shares of common stock available to be granted at a future date.

The following table presents restricted stock and performance unit award activity for the nine months ended September 30, 2016:

	Restric	ted St	ock	Performa	ance U	nits
	Shares		eighted Average Frant- Date Fair Value	Shares		ighted Average ant- Date Fair Value
Outstanding at January 1, 2016	1,007,794	\$	49.47	175,675	\$	59.94
Granted	242,835		67.48	77,017		67.57
Vested (a)	(417,544)		33.19	(20,604)		57.58
Forfeitures	(18,233)		58.72	_		_
Outstanding at September 30, 2016	814,852	\$	62.98	232,088	\$	62.68
Granted Vested (a) Forfeitures	242,835 (417,544) (18,233)	\$	67.48 33.19 58.72	77,017 (20,604) —		67. 57.

<sup>(</sup>a) Upon vesting of the performance unit awards, PCA issued 21,111 shares of its common stock, which included 507 shares for dividends accrued during the vesting period.

#### **Compensation Expense**

Our share-based compensation expense is recorded in "Selling, general, and administrative expenses". Compensation expense for share-based awards recognized in the Consolidated Statements of Income, net of forfeitures, was as follows (dollars in millions):

	T	Three Months E	l September 30	Nine Months Ended September 3				
		2016		2015		2016		2015
Restricted stock	\$	3.5	\$	3.7	\$	12.2	\$	11.7
Performance units		1.3		0.9		2.8		2.0
Total share-based compensation expense		4.8		4.6		15.0		13.7
Income tax benefit		(1.8)		(1.8)		(5.8)		(5.3)
Share-based compensation expense, net of tax benefit	\$	3.0	\$	2.8	\$	9.2	\$	8.4

The fair value of restricted stock and performance units is determined based on the closing price of the Company's common stock on the grant date. As PCA's Board of Directors has the ability to accelerate vesting of share-based awards upon an employee's retirement, the Company accelerates the recognition of compensation expense for certain employees approaching normal retirement age.

The unrecognized compensation expense for all share-based awards at September 30, 2016 was as follows (dollars in millions):

	Septembe	r 30, 2016
	ecognized sation Expense	Remaining Weighted Average Recognition Period (in years)
Restricted stock	\$ 30.7	2.9
Performance units	9.1	3.0
Total unrecognized share-based compensation expense	\$ 39.8	2.9

#### 13. Stockholders' Equity

#### Dividends

During the nine months ended September 30, 2016, we paid \$156.7 million of dividends to shareholders. On August 31, 2016 PCA announced an increase of its quarterly cash dividend on its common stock from an annual payout of \$2.20 per share to \$2.52 per share. Also, on August 31, 2016 PCA's Board of Directors declared a regular quarterly cash dividend of \$0.63 per share, which was paid on October 14, 2016 to shareholders of record as of September 15, 2016. The October 2016 dividend payment was \$59.4 million.

#### Repurchases of Common Stock

On February 25, 2016 PCA announced that its Board of Directors authorized the repurchase of an additional \$200.0 million of the Company's outstanding common stock. Repurchases may be made from time to time in open market or privately negotiated transactions in accordance with applicable securities regulations. The timing and amount of repurchases will be determined by the Company in its discretion based on factors such as PCA's stock price and market and business conditions.

During the nine months ended September 30, 2016, we paid \$100.3 million to repurchase 1,987,187 shares of common stock.

# Accumulated Other Comprehensive Income (Loss)

Changes in accumulated other comprehensive income (loss) (AOCI) by component were as follows. Amounts in parentheses indicate losses (dollars in millions):

	On	ealized Loss Treasury ocks, Net	1	Unrealized Loss on Foreign Exchange Contracts	Unfunded Employee Benefit Obligations		Total
Balance at January 1, 2016	\$	(21.2)	\$	(0.4)	\$ (103.3)	-	\$ (124.9)
Other comprehensive income (loss) before reclassifications, net of tax		_		_	3.1		3.1
Amounts reclassified from AOCI, net of tax		2.6	(a)	_	5.0	(b)	7.6
Balance at September 30, 2016	\$	(18.6)	\$	(0.4)	\$ (95.2)		\$ (114.2)

Reclassifications out of AOCI were as follows. Amounts in parentheses indicate expenses in the Consolidated Statements of Income (dollars in millions):

Amounts Reclassified from AOCI								
				Nine Months Ended September 30			Affected Line Item in the Statement Where	
2016		2015		2016		2015	Net Income is Presented	
\$ _	\$	_	\$	_	\$	(4.2)	Other expense, net	
_		_		_		_	Tax benefit	
\$ _	\$		\$	_	\$ (4.2)		Net of tax	
\$ (1.4)	\$	(1.4)	\$	(4.2)	\$	(4.2)	See (a) below	
0.5		0.5		1.6		1.6	Tax benefit	
\$ (0.9)	\$	(0.9)	\$	(2.6)	\$	(2.6)	Net of tax	
\$ (1.3)	\$	(1.4)	\$	(4.2)	\$	(4.2)	See (b) below	
(1.5)		(2.1)		(3.9)		(6.5)	See (b) below	
(2.8)		(3.5)		(8.1)		(10.7)	Total before tax	
1.0		1.4		3.1		4.2	Tax benefit	
\$ (1.8)	\$	(2.1)	\$	(5.0)	\$	(6.5)	Net of tax	
\$ \$ \$	\$ (1.4)  \$ (0.9)  \$ (1.5)  (2.8)  1.0	September           2016         \$	\$ — \$ —  - — —  \$ — \$ —  \$ — \$ —  \$ — \$ —  \$ (1.4) \$ (1.4)  0.5 0.5  \$ (0.9) \$ (0.9)  \$ (0.9)  \$ (1.3) \$ (1.4)  (1.5) (2.1)  (2.8) (3.5)  1.0 1.4	September 30       2016     2015       \$     —       \$     —       \$     —       \$     —       \$     —       \$     —       \$     0.5       \$     0.5       \$     (0.9)       \$     (0.9)       \$     (1.4)       \$     (1.5)       (2.1)       (2.8)     (3.5)       1.0     1.4	September 30         September 30           2016         2015         2016           \$         —         \$         —           —         —         —         —           \$         —         \$         —           \$         —         \$         —           \$         —         \$         —           \$         —         \$         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —         —         —           \$         —	September 30         September 3           2016         2015         2016           \$         —         \$         —         \$           —         —         —         —         —           \$         —         \$         —         \$           \$         —         \$         —         \$           \$         —         \$         —         \$           \$         —         \$         —         \$           \$         —         —         —         \$           \$         —         —         —         —         \$           \$         —         —         —         —         \$           \$         —         —         —         —         —         —           \$         —	September 30           2016         2015         2016         2015           \$ —         \$ —         \$ —         \$ —           —         —         —         —         —           \$ —         \$ —         \$ —         \$ —         \$ —           \$ —         \$	

<sup>(</sup>a) This AOCI component is included in interest expense, net. Amount relates to the amortization of the effective portion of treasury lock derivative instruments recorded in AOCI. The net amount of settlement gains or losses on derivative instruments included in AOCI to be amortized over the next 12 months is a net loss of \$5.7 million (\$3.5 million after tax). For a discussion of treasury lock derivative instrument activity, see Note 14, Derivative Instruments and Hedging Activities, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K.

(b) These AOCI components are included in the computation of net pension and postretirement benefit costs. See Note 11, Employee Benefit Plans and Other Postretirement Benefits, for additional information.

#### 14. Concentrations of Risk

Our Paper segment has had a long-standing commercial and contractual relationship with Office Depot, our largest customer in the paper business. This relationship exposes us to a significant concentration of business and financial risk. Our sales to Office Depot represent approximately 8% and 9% of our total Company sales revenue, for the nine months ended September 30, 2016 and 2015, respectively, and approximately 41% and 45% of our Paper segment sales revenue for both those periods, respectively. At September 30, 2016 and December 31, 2015 we had \$31.6 million and \$39.5 million of accounts receivable due from Office Depot, which represents 4% and 6% of our total Company accounts receivable, respectively.

In 2015, sales to Office Depot represented 45% of our Paper segment sales. If these sales are reduced, we would need to find new customers. We may not be able to fully replace any lost sales, and any new sales may be at lower prices or higher costs. Any significant deterioration in the financial condition of Office Depot affecting its ability to pay or any other change that affects its willingness to purchase our products will harm our business and results of operations.

During the second quarter of 2016, Office Depot and Staples terminated their merger agreement, and the acquisition of Office Depot by Staples was not completed. We continue to do business in the ordinary course with Office Depot.

#### 15. Transactions With Related Parties

Louisiana Timber Procurement Company, L.L.C. (LTP) is a variable-interest entity that is 50% owned by PCA and 50% owned by Boise Cascade Company (Boise Cascade). LTP procures sawtimber, pulpwood, residual chips, and other residual wood fiber to meet the wood and fiber requirements of PCA and Boise Cascade in Louisiana. PCA is the primary beneficiary of LTP, and has the power to direct the activities that most significantly affect the economic performance of LTP. Therefore, we consolidate 100% of LTP in our financial statements in our Corporate and Other segment. The carrying amounts of LTP's assets and liabilities (which relate primarily to noninventory working capital items) on our Consolidated Balance Sheets were \$5.1 million at September 30, 2016 and \$4.5 million at December 31, 2015. During the three months ended September 30, 2016 and 2015, we recorded \$15.5 million and \$25.2 million, respectively, and during the nine months ended September 30, 2016 and 2015 we recorded \$54.8 million and \$70.3 million, respectively, of LTP sales to Boise Cascade in "Net Sales" in the Consolidated Statements of Income and approximately the same amount of expenses in "Cost of Sales". The sales were at prices designed to approximate market prices.

During the three months ended September 30, 2016 and 2015, fiber purchases from related parties were \$3.9 million and \$5.0 million, respectively. Fiber purchases were \$13.2 million and \$16.3 million during the nine months ended September 30, 2016 and 2015, respectively. Most of these purchases related to chip and log purchases by LTP from Boise Cascade's wood products business. These purchases are recorded in "Cost of Sales" in the Consolidated Statements of Income.

#### 16. Segment Information

We report our business in three reportable segments: Packaging, Paper, and Corporate and Other. These segments represent distinct businesses that are managed separately because of differing products and services. Each of these businesses requires distinct operating and marketing strategies.

Each segment's profits and losses are measured on operating profits before interest expense, net, and income taxes. For many of these allocated expenses, the related assets and liabilities remain in the Corporate and Other segment.

Selected financial information by reportable segment was as follows (dollars in millions):

			Operating Income			
Three Months Ended September 30, 2016		Trade	Inter-segment	Total	Ope	(Loss)
Packaging	\$	1,165.0	\$ 2.1	\$ 1,167.1	\$	179.6 (a)
Paper		292.8	_	292.8		44.5 <sub>(a)</sub>
Corporate and Other		26.2	36.7	62.9		(17.7)
Intersegment eliminations		_	(38.8)	(38.8)		_
	\$	1,484.0	\$ 	\$ 1,484.0		206.4
Interest expense, net						(23.4)
Income before taxes					\$	183.0

	Sales, net										
Three Months Ended September 30, 2015		Trade		Inter-segment		Total	Opei	rating Income (Loss)			
Packaging	\$	1,144.0	\$	0.4	\$	1,144.4	\$	198.2 <sub>(b)</sub>			
Paper		291.9		_		291.9		39.5 <sub>(c)</sub>			
Corporate and Other		34.9		36.3		71.2		(18.3) <sub>(d)</sub>			
Intersegment eliminations		_		(36.7)		(36.7)		_			
	\$	1,470.8	\$		\$	1,470.8		219.4			
Interest expense, net								(21.7)			
Income before taxes							\$	197.7			

		Operating Income					
Nine Months Ended September 30, 2016		Trade		Inter-segment	Total	Oper	(Loss)
Packaging	\$	3,382.4	\$	5.5	\$ 3,387.9	\$	533.5 (a)
Paper		840.1		_	840.1		105.0 <sub>(a)</sub>
Corporate and Other		79.9		105.7	185.6		(51.1) <sub>(a)</sub>
Intersegment eliminations		_		(111.2)	(111.2)		<u> </u>
	\$	4,302.4	\$		\$ 4,302.4		587.4
Interest expense			-				(67.5)
Income before taxes						\$	519.9

		0					
Nine Months Ended September 30, 2015	Trade	ade Inter-segment			Total	Оре	rating Income (Loss)
Packaging	\$ 3,382.8	\$	3.1	\$	3,385.9	\$	533.9 <sub>(b)</sub>
Paper	870.3		_		870.3		98.6 <sub>(c)</sub>
Corporate and Other	97.7		101.0		198.7		(58.4) <sub>(d)</sub>
Intersegment eliminations	_		(104.0)		(104.0)		_
	\$ 4,350.8	\$	_	\$	4,350.8		574.1
Interest expense	 						(63.2)
Income before taxes						\$	510.9

<sup>(</sup>a) The three and nine months ended September 30, 2016 include \$2.0 million and \$6.5 million, respectively, of closure costs related to corrugated products facilities and a paper products facility. The closure costs are recorded within "Other income (expense), net" and "Cost of sales", as appropriate.

The three and nine months ended September 30, 2016 include \$2.9 million and \$3.2 million of acquisition-related costs for the TimBar Corporation acquisition, which we recorded in "Other income (expense), net".

- The nine months ended September 30, 2016 include \$0.9 million of costs related to our withdrawal from a multiemployer pension plan for one of our corrugated products facilities.
- (b) The three and nine months ended September 30, 2015 include \$3.8 million of income and \$5.4 million of expense, respectively, related to restructuring charges at our mill in DeRidder, Louisiana, which were recorded in "Other income (expense), net" and "Cost of sales", as appropriate.
  - The nine months ended September 30, 2015 include \$2.7 million of Boise acquisition integration-related and other costs, respectively. These costs primarily relate to professional fees, severance, retention, relocation, travel, and other integration-related costs, and are mostly recorded in "Other income (expense), net".
- (c) In September 2015, we sold the remaining land, buildings, and equipment at our paper mill site in St. Helens, Oregon, where we ceased paper production in December 2012. We recorded a \$6.7 million gain on the sale, in "Other income (expense), net".
- (d) The three and nine months ended September 30, 2015 include \$2.4 million and \$6.9 million, respectively, of Boise acquisition integration-related and other costs, mostly recorded in "Other income (expense), net".

#### 17. New and Recently Adopted Accounting Standards

In August 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2016-15, "Statement of Cash Flows (Topic 230): *Classification of Certain Cash Receipts and Cash Payments*. This ASU adds or clarifies guidance on the classification of certain cash receipts and payments in the statement of cash flows. It is effective for annual periods beginning after December 15, 2017, and interim periods within those annual periods, with early adoption permitted. The Company does not expect this ASU to have a material impact on the Company's financial condition, results of operations, or cash flows.

In March 2016, the FASB issued ASU 2016-09 (Topic 718): *Improvements to Employee Share-Based Payment Accounting*. This ASU is intended to improve the accounting for share-based payment transactions as part of the FASB's simplification initiative. Under the ASU, all excess tax benefits and tax deficiencies will be recorded as an income tax benefit or expense in the income statement on a prospective basis. The excess tax benefits or deficiencies will be calculated as the difference between the amount of compensation expense for financial reporting purposes and the amount of compensation expense for tax purposes. We have no unrecognized excess tax benefits to record upon the adoption of this ASU. The ASU is effective for fiscal years beginning after December 15, 2016, and interim periods within those years for public business entities. We are continuing to evaluate the effect of the adoption of this ASU on our financial statements and will apply the ASU beginning January 1, 2017 for our first quarter ended March 31, 2017.

In February 2016, the FASB issued ASU 2016-02 (Topic 842): *Leases*. This ASU amends a number of aspects of lease accounting, including requiring lessees to recognize operating leases with a term greater than one year on their balance sheet as a right-of-use asset and corresponding lease liability, measured at the present value of the lease payments. This ASU will be effective for us beginning in our first quarter of 2019 and early adoption is permitted. This ASU is required to be adopted using a modified retrospective approach. We are evaluating the timing and effects of the adoption of this ASU on our financial statements.

Effective January 1, 2016, the Company adopted ASU 2015-03 (Topic 835): Simplifying the Presentation of Debt Issuance Costs. This ASU conforms the presentation of debt issuance costs with that required for debt discounts under U.S. Generally Accepted Accounting Principles (GAAP). Under the ASU, debt issuance costs are presented in the balance sheet as a direct deduction from the related liability rather than as an asset. We applied this guidance retrospectively, as required, and reclassified \$12.3 million from "Other long-term assets" to "Long-term debt" on our December 31, 2015 Consolidated Balance Sheet to conform with current period presentation. At September 30, 2016 deferred financing costs were \$13.0 million.

In July 2015, the FASB issued ASU 2015-11 (Topic 330): *Simplifying the Measurement of Inventory*. This ASU addresses only the measurement of inventory if its value declines or is impaired. The guidance on determining the cost of inventory is not amended. We continue to apply average cost to determine the cost of inventory and will then compare that to the net realizable value to determine if an inventory write-down is necessary. The ASU is effective January 1, 2017, and we do not expect it to have a material effect on our financial position or results of operations.

In May 2014, the FASB issued ASU 2014-09 (Topic 606): *Revenue from Contracts with Customers*. This ASU amends the guidance for revenue recognition to replace numerous, industry-specific requirements and converges areas under this topic with those of the International Financial Reporting Standards. The ASU implements a five-step process for customer contract revenue recognition that focuses on transfer of control, as opposed to transfer of risk and rewards. The amendment also requires enhanced disclosures regarding the nature, amount, timing, and uncertainty of revenues and cash flows from contracts with

customers. In March 2016, the FASB issued ASU 2016-08, *Revenue from Contracts with Customers - Principal versus Agent Considerations (Reporting revenue gross versus net)*, which clarifies gross versus net revenue reporting when another party is involved in the transaction. In April 2016, the FASB issued ASU 2016-10, *Revenue from Contracts with Customers-Identifying Performance Obligations and Licensing*, which amends the revenue guidance on identifying performance obligations and accounting for licenses of intellectual property. In May 2016, the FASB issued ASU 2016-12, *Revenue from Contracts with Customers - Narrow-Scope Improvements and Practical Expedients*, which provides narrow-scope improvements to the guidance on collectability, non-cash consideration, and completed contracts at transition. Entities can transition to the standard either retrospectively or as a cumulative-effect adjustment as of the date of adoption. The standard will be effective for reporting periods beginning after December 15, 2017. We are still assessing the impact of ASU 2014-09, but we do not believe it will have a material effect on our financial position or results of operations.

There were no other accounting standards recently issued that had or are expected to have a material impact on our financial position or results of operations.

#### 18. Commitments, Guarantees, Indemnifications and Legal Proceedings

We have financial commitments and obligations that arise in the ordinary course of our business. These include long-term debt, capital commitments, lease obligations, and purchase commitments for goods and services, and legal proceedings, all of which are discussed in Note 10, Debt, and Note 19, Commitments, Guarantees, Indemnifications, and Legal Proceedings, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K.

#### **Guarantees and Indemnifications**

We provide guarantees, indemnifications, and other assurances to third parties in the normal course of our business. These include tort indemnifications, product guarantees, environmental assurances, and representations and warranties in commercial agreements. At September 30, 2016 we are not aware of any material liabilities arising from any guarantee, indemnification, or financial assurance we have provided. If we determined such a liability was probable and subject to reasonable determination, we would accrue for it at that time.

#### **Legal Proceedings**

We are party to legal actions arising in the ordinary course of our business. These legal actions include commercial liability claims, premises liability claims, commercial disputes, and employment-related claims, among others. As of the date of this filing, we believe it is not reasonably possible that any of the legal actions against us will, either individually or in the aggregate, have a material adverse effect on our financial condition, results of operations, or cash flows.

#### 19. Subsequent Events

The Company has disclosed the following subsequent event in accordance with Accounting Standards Codification (ASC) 855, "Subsequent Events." Subsequent events have been evaluated through the filing date of this Form 10-Q.

On October 11, 2016, we entered into a definitive agreement to acquire substantially all the assets of Columbus Container, Inc., for a cash purchase price of \$100 million. Columbus Container, Inc. is a full-service provider of corrugated packaging products. Columbus Container's operations include a full-line corrugated products plant and five warehousing facilities and other related operations located in Indiana and Illinois. Closing is subject to certain customary conditions and is expected in the fourth quarter of 2016. PCA expects to finance the transaction with available cash on hand. The operating results of Columbus Container will be included in PCA's results upon closing of the transaction.

In October 2016, we announced that we will cease softwood market pulp operations at our Wallula, Washington mill and permanently shutdown the No. 1 machine, with pulp capacity of approximately 100,000 tons, effective December 1, 2016.

#### Item 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

This management's discussion and analysis includes statements regarding our expectations with respect to our future performance, expected business conditions, liquidity, and capital resources. Such statements, along with any other nonhistorical statements in the discussion, are forward-looking. These forward-looking statements are subject to numerous risks and uncertainties, including, but not limited to, the risks and uncertainties described in our 2015 Annual Report on Form 10-K, as well as those factors listed in other documents we file with the Securities and Exchange Commission (SEC). We do not assume any obligation to update any forward-looking statement. Our actual results may differ materially from those contained in or implied by any of the forward-looking statements in this Form 10-Q. Please see "Forward Looking Statements" elsewhere in this Item 2.

#### Overview

PCA is the fourth largest producer of containerboard and corrugated packaging products in the United States and the third largest producer of uncoated freesheet paper in North America, based on production capacity. We operate five containerboard mills, three paper mills, and 95 corrugated products manufacturing plants. Our corrugated products manufacturing plants produce a wide variety of corrugated packaging products, including conventional shipping containers used to protect and transport manufactured goods, multi-color boxes and displays with strong visual appeal that help to merchandise the packaged product in retail locations, and honeycomb protective packaging. In addition, we are a large producer of packaging for meat, fresh fruit and vegetables, processed food, beverages, and other industrial and consumer products. We also manufacture and sell white papers, including both commodity and specialty papers, which may have custom or specialized features such as colors, coatings, high brightness, and recycled content. We operate primarily in the United States.

This Item 2 is intended to supplement, and should be read in conjunction with, "Management's Discussion and Analysis of Financial Condition and Results of Operations" included in our 2015 Annual Report on Form 10-K.

#### **Executive Summary**

Third quarter net sales were \$1.48 billion in 2016 and \$1.47 billion in 2015. We reported \$119 million of net income, or \$1.26 per diluted share, during the third quarter of 2016, compared with \$128 million of net income, or \$1.31 per diluted share, during the same period in 2015. The third quarter of 2016 included \$5 million of pre-tax expense for special items (discussed below) compared to \$8 million of pre-tax income in 2015. Excluding special items, we recorded \$123 million of net income, or \$1.30 per diluted share, during the third quarter of 2016, compared with \$123 million of net income, or \$1.26 per diluted share, in the third quarter of 2015. The increase was driven primarily by higher containerboard, corrugated products, and white paper sales volumes, higher white paper prices and mix, and lower costs for energy, fiber, and freight, and a lower share count resulting from share repurchases. Gains were partially offset by lower domestic containerboard and corrugated products prices and mix, lower containerboard export prices, lower paper production volume, and higher employee related costs.

During the first nine months of 2016 we reported \$339 million of net income, or \$3.58 per diluted share, compared with \$333 million, or \$3.39 per diluted share, during the same period in 2015. The nine months ended September 30, 2016 included \$11 million of pre-tax expense for special items (discussed below), compared with \$8 million of pre-tax expense for special items during the same period in 2015. Excluding special items, we recorded \$346 million of net income, or \$3.65 per diluted share, during the first nine months of 2016, compared with \$338 million of net income, or \$3.45 per diluted share, in the first nine months of 2015. The increase was driven primarily by higher volumes and lower maintenance costs in our packaging segment, lower energy, fiber and freight costs in both our packaging and paper segments, and a lower share count resulting from share repurchases. Gains were partially offset by lower prices and mix in white paper, containerboard, and corrugated products.

Packaging segment income from operations was \$180 million in the third quarter of 2016, compared to \$198 million in the third quarter of 2015. Packaging segment earnings before interest, taxes, depreciation, amortization, and depletion (EBITDA) excluding special items was \$256 million in the third quarter of 2016 and \$268 million in the third quarter of 2015. Compared to the third quarter of 2015, corrugated products shipments were higher, while containerboard and corrugated product prices and mix were down due to lower export prices and industry published price decreases.

Packaging segment income from operations was \$534 million in both the first nine months of 2016 and 2015. Packaging segment EBITDA excluding special items was \$759 million in the first nine months of 2016, compared to \$757 million in the first nine months of 2015. Compared to the first nine months of 2015, both containerboard and corrugated

products shipments were higher with lower mill outage and energy costs, while containerboard and corrugated products prices and mix were down.

Paper segment income from operations was \$45 million in the third quarter of 2016, compared to \$40 million in the third quarter of 2015. Paper segment EBITDA excluding special items increased to \$59 million in the third quarter of 2016, compared to \$46 million in the third quarter of 2015. White paper shipments were higher and pulp shipments were lower, compared with last year's third quarter. Paper segment prices and mix were favorable to last year's third quarter from continued realization of the previously announced price increases.

Paper segment income from operations was \$105 million in the first nine months of 2016, compared to \$99 million in the first nine months of 2015. Paper segment EBITDA excluding special items was \$149 million in the first nine months of 2016, compared to \$133 million in the first nine months of 2015. Paper prices and mix were flat, while fiber and energy costs were lower, leading to increased margins. White paper shipments were up slightly and pulp shipments were lower, compared with the first nine months of last year.

Special Items and Earnings per Diluted Share, Excluding Special Items

The third quarter of 2016 included \$5 million of pre-tax expense for special items compared to \$8 million of pre-tax income in the same period in 2015. The special items in the third quarter of 2016 included \$3 million for TimBar acquisition-related costs and \$2 million for facilities closure costs related to corrugated manufacturing facilities and a paper distribution center. The three months ended September 30, 2015 included a \$7 million gain on the sale of our St. Helens paper mill site, \$4 million of income for services and equipment received for vendor settlements at our DeRidder mill, and \$3 million of Boise acquisition integration-related and other costs.

The nine months ended September 30, 2016 included \$11 million of pre-tax expense for special items, compared with \$8 million of pre-tax expense for special items during the same period in 2015. The nine months ended September 30, 2016 included \$7 million for facilities closure costs related to corrugated manufacturing facilities and a paper distribution center, \$3 million for TimBar acquisition-related costs, and \$1 million related to our withdrawal from a multiemployer pension plan for one of our corrugated products facilities. The nine months ended September 30, 2015 included \$10 million of Boise acquisition integration-related and other costs, \$5 million of expenses related to the DeRidder mill restructuring, and a \$7 million gain on the sale of our St. Helens paper mill site.

A reconciliation of reported earnings per diluted share to earnings per share, excluding special items, for the three and nine months ended September 30, 2016 and 2015 are as follows:

	Three Months Ended September 30					Nine Months Ended September 3			
	20	16		2015		2016		2015	
Earnings per diluted share, as reported	\$	1.26	\$	1.31	\$	3.58	\$	3.39	
Special items (a):									
Facilities closure costs		0.02		_		0.04		_	
Acquisition-related costs		0.02		_		0.02		_	
Multiemployer pension plan withdrawal		_		_		0.01		_	
DeRidder restructuring		_		(0.02)		_		0.04	
Integration-related and other costs		_		0.02		_		0.06	
Sale of St. Helens paper mill site		_		(0.05)		_		(0.04)	
Total special items		0.04		(0.05)		0.07		0.06	
Earnings per diluted share, excluding special items	\$	1.30	\$	1.26	\$	3.65	\$	3.45	

<sup>(</sup>a) See "Reconciliations of Non-GAAP Financial Measures to Reported Amounts" in this Management's Discussion and Analysis of Financial Condition and Results of Operations for more information on the special items.

Management excludes special items as it believes these items are not necessarily reflective of the ongoing results of operations of our business. We present these measures because they provide a means to evaluate the performance of our segments and our company on an ongoing basis using the same measures that are used by our management, because these measures assist in providing a meaningful comparison between periods presented and because these measures are frequently used by investors and other interested parties in the evaluation of companies and the performance of their segments. A reconciliation of diluted EPS to diluted EPS excluding special items is included above and the reconciliations of other non-GAAP measures used in this Management's Discussion and Analysis of Financial Condition and Results of Operations, to the most comparable measure reported in accordance with GAAP, are included in Item 2 under "Reconciliations of Non-GAAP Financial Measures to Reported Amounts." Any analysis of non-GAAP financial measures should be done in conjunction with results presented in accordance with GAAP. The non-GAAP measures are not intended to be substitutes for GAAP financial measures and should not be used as such.

#### **Industry and Business Conditions**

Trade publications reported that industry-wide corrugated products shipments increased 1.5% during the third quarter of 2016, compared with the same quarter in 2015. Reported industry containerboard production increased 2.0% compared with the third quarter of 2015, and reported industry containerboard inventories at the end of the third quarter of 2016 were approximately 2.4 million tons, down 10.2% compared to the same period in 2015. Reported containerboard export shipments were up 13.8% compared to the third quarter of 2015. Published containerboard prices did not change during the quarter, but increased by \$40 per ton in October 2016.

The market for communication papers competes heavily with electronic data transmission and document storage alternatives. Increasing shifts to these alternatives have reduced usage of traditional print media and communication papers. Trade publications reported that uncoated freesheet paper shipments were down 4.7% in the third quarter of 2016, compared with the same quarter in 2015. Average prices reported by a trade publication for cut size office papers were lower by \$10 per ton, or 1.0%, in the third quarter of 2016, compared with the third quarter of 2015.

#### Outlook

Looking ahead to the fourth quarter 2016, we expect seasonally lower volumes for containerboard and corrugated products, which includes four less shipping days, as well as a seasonally less rich mix in corrugated products, compared to the third quarter. However, we will have three months of TimBar activity in the fourth quarter versus only one month in the third quarter. In addition, we did communicate a price increase of \$50 per ton effective October 1 to all containerboard customers as well as a price increase to our corrugated products customers. We expect seasonally lower volumes and a less rich mix in white papers and, with colder weather, wood and fuel costs are expected to be seasonally higher along with some price inflation on recycled fiber. Our annual outage costs also will be higher with the scheduled maintenance work at our Filer City, Michigan containerboard mill. Considering these items, we expect fourth quarter earnings to be lower than third quarter earnings. In addition, as previously announced, we are on track to close the acquisition of Columbus Container during the fourth quarter of 2016.

#### **Results of Operations**

#### Three Months Ended September 30, 2016, compared with Three Months Ended September 30, 2015

The historical results of operations of PCA for the three months ended September 30, 2016 and 2015 are set forth below (dollars in millions):

	Three Months Ended September 30					
	2	2016		2015		Change
Packaging	\$	1,167	\$	1,144	\$	23
Paper		293		292		1
Corporate and Other		63		72		(9)
Intersegment eliminations		(39)		(37)		(2)
Net sales	\$	1,484	\$	1,471	\$	13
Packaging	\$	180	\$	198	\$	(18)
Paper		45		40		5
Corporate and Other		(19)		(19)		_
Income from operations	\$	206	\$	219	\$	(13)
Interest expense, net		(23)		(21)		(2)
Income before taxes		183		198		(15)
Income tax provision		(64)		(70)		6
Net income	\$	119	\$	128	\$	(9)
Non-GAAP Measures (a)						
Net income excluding special items	\$	123	\$	123	\$	_
Consolidated EBITDA		294		307		(13)
Consolidated EBITDA excluding special items		299		299		_
Packaging EBITDA		252		272		(20)
Packaging EBITDA excluding special items		256		268		(12)
Paper EBITDA		59		53		6
Paper EBITDA excluding special items		59		46		13

<sup>(</sup>a) See "Reconciliations of Non-GAAP Financial Measures to Reported Amounts" included in this Item 2 for a reconciliation of non-GAAP measures to the most comparable GAAP measure.

### Net Sales

Net sales increased \$13 million, or 0.9%, to \$1,484 million during the three months ended September 30, 2016, compared with \$1,471 million during the same period in 2015.

Packaging. Net sales increased \$23 million, or 2.0%, to \$1,167 million, compared with \$1,144 million in the third quarter of 2015, primarily due to the addition of TimBar (\$34 million) and increased containerboard and corrugated products volume (\$15 million), partially offset by lower export and domestic containerboard and corrugated products price and mix (\$26 million). Our domestic containerboard prices in the third quarter of 2016 decreased 4.4% due to published price decreases. Additionally our export containerboard prices decreased 6.5%, compared with the same period in 2015. In the third quarter of 2016, our containerboard outside shipments increased 10.8%, and corrugated products shipments were up 4.9%, compared with the third quarter of 2015.

*Paper.* Net sales during the three months ended September 30, 2016 remained relatively flat, increasing \$1 million to \$293 million, compared with \$292 million in the third quarter of 2015. Sales increased primarily due to changes in price and mix (\$4 million) and increased white paper sales volume (\$12 million), offset by a decrease in pulp volume (\$15 million).

Paper prices and mix in the third quarter of 2016 increased 1.5% compared with the same period last year. During the third quarter of 2016, white paper shipments increased 13,000 tons compared to the third quarter of 2015.

#### **Gross Profit**

Gross profit was relatively flat, increasing \$1 million during the three months ended September 30, 2016, compared with the same period in 2015. The increase was primarily due to higher containerboard, corrugated products, and white paper sales volumes, and lower fiber, energy, and freight costs, partially offset by lower prices and mix in containerboard and corrugated products. In the third quarter of 2016, gross profit included special items of \$1 million for facilities closure and acquisition related costs. There were no special items that affected gross profit in the third quarter of 2015.

#### Selling, General, and Administrative Expenses

Selling, general, and administrative expenses increased \$4 million during the three months ended September 30, 2016, compared with the same period in 2015. The increase was primarily due to higher administrative costs corresponding to the TimBar acquisition.

#### Other Income (Expense), Net

Other income (expense), net, during the three months ended September 30, 2016 was \$6 million of expense, compared with \$4 million of income during the three months ended September 30, 2015. The third quarter of 2016 included \$2 million of facilities closure costs, \$2 million of acquisition-related costs for our acquisition of TimBar, and \$1 million of asset disposal costs, and other miscellaneous income and expense items. The third quarter of 2015 included a \$7 million gain on sale of our St. Helens paper mill site, \$4 million of income for services and equipment received for vendor settlements related to the DeRidder mill restructuring, offset partially by \$5 million of asset disposal costs and \$2 million of integration-related and other costs. We discuss these items in more detail in Note 4, Other Income (Expense), Net of the Condensed Notes to Unaudited Quarterly Consolidated Financial Statements in "Part I, Item1. Financial Statements" of this Form 10-Q.

#### **Income from Operations**

Income from operations decreased \$13 million, or 6.0%, during the three months ended September 30, 2016, compared with the same period in 2015. The third quarter of 2016 included \$5 million of expense from special items compared to \$8 million of income during the same period of 2015. The special items in the third quarter of 2016 included \$2 million of facilities closure costs related to corrugated manufacturing facilities and a paper distribution center and \$3 million of TimBar acquisition-related costs. The three months ended September 30, 2015 included a \$7 million gain on the sale of our St. Helens paper mill site, \$4 million of income for insurance proceeds received related to the DeRidder mill restructuring, and \$2 million of expense related to the Boise integration and other costs. Excluding special items of \$13 million discussed above, income from operations remained flat during the three months ended September 30, 2016, compared with the same period in 2015.

Packaging. Packaging segment income from operations decreased \$18 million to \$180 million, compared with \$198 million during the three months ended September 30, 2015. The decrease in the third quarter of 2016 related primarily to lower domestic containerboard and corrugated products prices and mix (\$18 million), lower containerboard export prices (\$3 million), higher costs for labor and fringes (\$5 million), partially offset by higher containerboard and corrugated products sales volume (\$5 million), lower freight (\$5 million), and energy (\$3 million), and outage (\$2 million) costs. Special items included \$3 million of TimBar acquisition-related costs and \$2 million of facilities closure costs in the third quarter of 2016 and \$4 million of income from insurance proceeds received related to the DeRidder mill restructuring for the same period in 2015.

*Paper.* Paper segment income from operations increased \$5 million to \$45 million, compared with \$40 million during the three months ended September 30, 2015. Excluding special items, which included a \$7 million gain on the sale of the St. Helens mill site in 2015, segment income increased \$12 million. The increase primarily related to higher price and mix (\$4 million), higher white paper sales volumes (\$2 million), and lower fiber costs (\$11 million), partially offset by lower paper production volume (\$4 million).

### Interest Expense, Net, and Income Taxes

Interest expense, net, increased \$2 million, during the three months ended September 30, 2016, compared with the same period in 2015. The increase in interest expense was primarily due to higher term loan borrowings for the TimBar

acquisition and higher interest rates on PCA's variable rate debt (\$1 million) and other costs that were individually insignificant in the third quarter of 2016, compared to the same period in 2015.

During the three months ended September 30, 2016, we recorded \$64 million of income tax expense, compared with \$70 million of expense during the three months ended September 30, 2015. The effective tax rate for the three months ended September 30, 2016 and 2015 was 34.8% and 35.4%, respectively.

#### Nine Months Ended September 30, 2016, compared with Nine Months Ended September 30, 2015

	Nine Months Ended September 30					
		2016		2015		Change
Packaging	\$	3,388	\$	3,386	\$	2
Paper		840		870		(30)
Corporate and Other		185		199		(14)
Intersegment eliminations		(111)		(104)		(7)
Net sales	\$	4,302	\$	4,351	\$	(49)
Packaging	\$	534	\$	534	\$	_
Paper		105		99		6
Corporate and Other		(52)		(59)		7
Income from operations	\$	587	\$	574	\$	13
Interest expense, net		(67)		(63)		(4)
Income before taxes		520		511		9
Income tax provision		(181)		(178)		(3)
Net income	\$	339	\$	333	\$	6
Non-GAAP Measures (a)						
Net income excluding special items	\$	346	\$	338	\$	8
Consolidated EBITDA		852		842		10
Consolidated EBITDA excluding special items		862		841		21
Packaging EBITDA		751		758		(7)
Packaging EBITDA excluding special items		759		757		2
Paper EBITDA		148		139		9
Paper EBITDA excluding special items		149		133		16

<sup>(</sup>a) See "Reconciliations of Non-GAAP Financial Measures to Reported Amounts" included in this Item 2 for a reconciliation of non-GAAP measures to the most comparable GAAP measure.

#### **Net Sales**

Net sales decreased \$49 million, or 1.1%, to \$4,302 million during the nine months ended September 30, 2016, compared with \$4,351 million during the same period in 2015.

Packaging. Net sales remained relatively flat, increasing \$2 million to \$3,388 million, compared with \$3,386 million in the nine months ended September 30, 2015, primarily due to the addition of TimBar (\$34 million) and higher containerboard and corrugated products volumes (\$45 million), partially offset by lower containerboard and corrugated products price and mix (\$66 million) and sales lost due to the divestiture of our Hexacomb operations in Mexico and Europe in 2015 (\$11 million). Our domestic containerboard prices in the first nine months of 2016 decreased 4.5% due to published price decreases. Additionally, our export containerboard prices decreased 7.5%, compared with the same period in 2015. In the first nine months of 2016, our

containerboard outside shipments remained flat, and corrugated products shipments were up 3.5%, compared with the first nine months of 2015.

*Paper.* Net sales during the nine months ended September 30, 2016 decreased \$30 million, or 3.4%, to \$840 million, compared with \$870 million in the nine months ended September 30, 2015. Sales decreased due to changes in price and mix (\$2 million) and lower volume (\$28 million). White paper prices and mix in the first nine months of 2016 decreased 2.3% compared with the same period last year. In the first nine months of 2016, our office paper shipments increased (19,000 tons) and pulp shipments decreased (43,000 tons) compared with the same period last year.

#### **Gross Profit**

Gross profit increased \$26 million, or 2.8%, during the nine months ended September 30, 2016, compared with the same period in 2015. The increase was primarily due to higher corrugated products volumes and lower fiber, energy, freight and maintenance costs, partially offset by lower white paper, containerboard and corrugated products prices and mix, and lower pulp volume. In the first nine months of 2016, gross profit included special items of \$2 million for facilities closure and acquisition-related costs, compared to \$9 million in the same period last year for DeRidder mill restructuring charges, most of which related to incremental depreciation expense associated with changing the estimated useful lives of mill assets.

#### Selling, General, and Administrative Expenses

Selling, general, and administrative expenses were flat at \$346 million during the nine months ended September 30, 2016, compared with the same period in 2015. Higher administrative costs corresponding to the TimBar acquisition were offset by lower administrative employee and other costs for the nine months ended September 30, 2016, compared with the same period in 2015.

#### Other Income (Expense), Net

Other expense, net, during the nine months ended September 30, 2016 was \$15 million, compared with \$3 million during the nine months ended September 30, 2015. The nine months ended September 30, 2016 included \$5 million of facilities closure costs, \$4 million of asset disposal costs, \$2 million of acquisition-related costs and \$1 million of costs related to our withdrawal from a multiemployer pension plan for one of our corrugated products facilities. The nine months ended September 30, 2015 included \$10 million of asset disposal costs and \$9 million of integration-related and other costs relating to the Boise acquisition, partially offset by a \$7 million gain on the sale of our St. Helens paper mill site, \$4 million of income related to the DeRidder restructuring, and \$4 million of income from a refundable state tax credit received related to our investments and the jobs retained at our DeRidder mill, among other miscellaneous income and expense items. We discuss these items in more detail in Note 4, Other Income (Expense), Net of the Condensed Notes to Unaudited Quarterly Consolidated Financial Statements in "Part I, Item1. Financial Statements" of this Form 10-Q.

#### **Income from Operations**

Income from operations increased \$13 million, or 2.3%, during the nine months ended September 30, 2016, compared with the same period in 2015. The first nine months of 2016 included \$11 million of expense from special items, compared with \$8 million of expense from special items in the first nine months of 2015. Special items for the nine months ended September 30, 2016 included \$7 million of facilities closure costs related to corrugated manufacturing facilities and a paper distribution center, \$3 million of TimBar acquisition-related costs, and \$1 million related to our withdrawal from a multiemployer pension plan for one of our corrugated products facilities. The nine months ended September 30, 2015 included \$5 million of charges related to restructuring the DeRidder mill and \$10 million of Boise acquisition integration-related and other costs, partially offset by \$7 million gain on the sale of our St. Helens paper mill site. In addition to the net difference resulting from special items of \$3 million discussed above, income from operations increased \$16 million during the nine months ended September 30, 2016, compared with the same period in 2015. The increase was primarily due to increased corrugated products volumes and lower operating costs, partially offset by lower prices and mix in white paper, containerboard and corrugated products.

Packaging. Packaging segment income from operations remained flat at \$534 million, during the first nine months of 2016 and 2015. The first nine months of 2016 included higher volume (\$10 million), lower freight (\$17 million), mill outage (\$13 million), energy (\$13 million), and fiber (\$5 million) costs, offset by lower containerboard and corrugated products prices and mix (\$41 million), higher labor costs (\$8 million), higher depreciation expense (\$3 million), and a 2015 state tax credit related to investments and jobs retained at our DeRidder mill (\$4 million). Special items included \$5 million of facilities closure costs, \$3 million of TimBar acquisition-related costs, and \$1 million related to our withdrawal from a multiemployer

pension plan for one of our corrugated products facilities in the first nine months of 2016 and \$5 million of DeRidder restructuring charges and \$3 million of integration-related and other costs relating to the Boise acquisition for the same period in 2015.

*Paper.* Paper segment income from operations increased \$6 million to \$105 million, compared to the nine months ended September 30, 2015. Excluding special items, which included \$2 million of facility closure costs in 2016 and a \$7 million gain on the sale of the St. Helens mill site in 2015, segment income increased \$15 million. The increase primarily relates to lower costs for fiber (\$22 million) and energy (\$9 million) in the nine months ended September 30, 2016 compared to the same period in 2015, partially offset by lower pulp volumes (\$6 million), lower paper production volumes (\$4 million), higher depreciation expense (\$2 million), increases in chemical (\$2 million) and mill outage costs (\$2 million).

# Interest Expense, Net, and Income Taxes

Interest expense, net, was \$67 million during the nine months ended September 30, 2016, compared with \$63 million during the nine months ended September 30, 2015. The increase in interest expense was primarily due to lower interest rebate income related to one of our term loans (\$3 million), higher term loan borrowings for the TimBar acquisition and higher interest rates on PCA's variable rate debt (\$1 million) during the nine months ended September 30, 2016 compared to the same period in 2015.

During the nine months ended September 30, 2016, we recorded \$181 million of income tax expense, compared with \$178 million of expense during the nine months ended September 30, 2015. The effective tax rate for the nine months ended September 30, 2016 and 2015 was 34.8% and 34.9%, respectively.

# **Liquidity and Capital Resources**

# Sources and Uses of Cash

Our primary sources of liquidity are net cash provided by operating activities and available borrowing capacity under our revolving credit facility. At September 30, 2016 we had \$280 million of cash and \$325 million of unused borrowing capacity under the revolving credit facility, net of letters of credit. Currently, our primary uses of cash are for operations, capital expenditures, acquisitions, debt service (including voluntary payments of debt), repurchases of common stock, and declared common stock dividends. We believe that net cash generated from operating activities, cash on hand, available borrowings under our revolving credit facility, and available capital through access to capital markets will be adequate to meet our liquidity and capital requirements, including payments of any declared common stock dividends, for the foreseeable future. As our debt or credit facilities become due, we will need to repay, extend, or replace such facilities. Our ability to do so will be subject to future economic conditions and financial, business, and other factors, many of which are beyond our control.

Below is a summary table of our cash flows, followed by a discussion of our sources and uses of cash through operating activities, investing activities, and financing activities (dollars in millions):

	Nine Months Ended September 30					
	20	16		2015		Change
Net cash provided by (used for):						
Operating activities	\$	588	\$	542	\$	46
Investing activities		(582)		(203)		(379)
Financing activities		90		(277)		367
Net increase in cash and cash equivalents	\$	96	\$	62	\$	34

# **Operating Activities**

During the nine months ended September 30, 2016, net cash provided by operating activities was \$588 million, compared with \$542 million in the same period in 2015, an increase of \$46 million. Cash from operations excluding changes in cash used for operating assets and liabilities decreased \$28 million, primarily due to higher cash pension plan contributions, partially offset by higher income from operations as discussed above. The remaining \$74 million increase from changes in cash used for operating assets and liabilities was primarily due to the following: (a) a decrease in our inventories, primarily in the

Paper segment, related to strong sales in the first nine months of 2016 and less inventory build due to changes in timing of Paper segment mill outages compared to 2015 and (b) an increase in accounts payable in the first nine months of 2016 compared to the same period in 2015. Cash requirements for operating activities are subject to PCA's operating needs and the timing of collection of receivables and payments of payables and expenses.

#### **Investing Activities**

Net cash used for investing activities during the nine months ended September 30, 2016 increased \$379 million, to \$582 million, compared with \$203 million during the same period in 2015. We spent \$188 million for capital investments during the nine months ended September 30, 2016, compared with \$218 million during the same period in 2015. In August 2016, we acquired TimBar for a purchase price of \$386 million, net of cash acquired. In April of 2015, we received \$23 million of cash proceeds for the sale of our Hexacomb corrugated manufacturing operations in Mexico and Europe.

We expect capital investments to be between \$250 million and \$285 million in 2016, excluding any acquisitions or other strategic activities. These expenditures could increase or decrease as a result of a number of factors, including our financial results, future economic conditions, and our regulatory compliance requirements. We currently estimate capital expenditures to comply with Boiler MACT regulations in 2016 of up to \$3 million, and we expect other environmental capital expenditures of about \$5 million in 2016. Our estimated environmental expenditures could vary significantly depending upon the enactment of new environmental laws and regulations, including those related to greenhouse gas emissions and industrial boilers. In July 2016, the U.S. Court of Appeals for the District of Columbia Circuit issued a ruling on the consolidated cases challenging Boiler MACT. The court vacated key portions of the rule, including emission limits for certain subcategories of solid fuel boilers, and remanded other issues to the EPA for further rulemaking. At this time we cannot predict with certainty how the recent decision will impact our expected costs to comply with any revised Boiler MACT standards. For additional information, see "Environmental Matters" in "Part II, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations" of our 2015 Annual Report on Form 10-K.

# **Financing Activities**

During the nine months ended September 30, 2016, net cash used by financing activities changed by \$367 million to a source of \$90 million, compared with a use of \$277 million during the same period in 2015. The change primarily related to proceeds from the issuance of a new \$385 million unsecured five-year term loan facility, which PCA fully borrowed to finance its acquisition of TimBar Corporation, partially offset by a higher dividend payment compared with the same period in 2015. In the first nine months of 2016, we paid \$157 million of dividends compared with \$147 million of dividends paid during the first nine months of 2015. On August 31, 2016 PCA's Board of Directors increased the regular quarterly cash dividend to \$0.63 per share from the previous \$0.55 per share dividend, beginning with the dividend paid on October 14, 2016. During the nine months ended September 30, 2016, we paid \$100 million to repurchase 1,987,187 shares of common stock, compared with \$98 million of share repurchases in the same period in 2015. We also withheld shares from vesting equity awards to cover employee tax liabilities of \$10 million in the first nine months of 2016, compared with \$7 million in the same period of 2015.

As PCA completed share repurchases under its prior authorization, on February 25, 2016 PCA announced that its Board of Directors authorized the repurchase of an additional \$200 million of the Company's outstanding common stock. Repurchases may be made from time to time in open market or privately negotiated transactions in accordance with applicable securities regulations. The timing and amount of repurchases will be determined by the Company in its discretion based on factors such as PCA's stock price and market and business conditions.

For more information about our debt, see Note 10, Debt, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K.

#### **Contractual Obligations**

On August 29, 2016, PCA acquired substantially all of the assets of TimBar Corporation (TimBar), a large independent corrugated products producer, for a cash purchase price of \$386 million. Funding for the acquisition came from a new \$385 million five-year term loan facility.

On October 11, 2016, we entered into a definitive agreement to acquire substantially all the assets of Columbus Container, Inc., for a cash purchase price of \$100 million. Closing is subject to certain customary conditions and is expected in the fourth quarter of 2016.

There have been no other material changes to the contractual obligations table disclosed in Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations" of our 2015 Annual Report on Form 10-K.

# **Reconciliations of Non-GAAP Financial Measures to Reported Amounts**

Income from operations excluding special items, net income excluding special items, EBITDA, and EBITDA excluding special items are non-GAAP financial measures. Management excludes special items as it believes that these items are not necessarily reflective of the ongoing operations of our business. These measures are presented because they provide a means to evaluate the performance of our segments and our Company on an ongoing basis using the same measures that are used by our management, because these measures assist in providing a meaningful comparison between periods and because these measures are frequently used by investors and other interested parties in the evaluation of companies and the performance of their segments. Any analysis of non-GAAP financial measures should be done in conjunction with results presented in accordance with GAAP. The non-GAAP measures are not intended to be substitutes for GAAP financial measures and should not be used as such. Reconciliations of the non-GAAP measures to the most comparable measure reported in accordance with GAAP for the three and nine months ended September 30, 2016 and 2015 follow (dollars in millions):

	Three Months Ended September 30							
	2016 2015							;
	Incor befo Taxe	re	Incom	e Taxes	Net Income	Income before Taxes	Incom Taxe	
As reported in accordance with GAAP	\$ 18	3.0	\$	(63.7) \$	119.3	\$ 197.7	\$ (69	.9) \$ 127.8
Special items:								
Facilities closure costs (a)		2.0		(0.6)	1.4	_		
Acquisition-related costs (b)		2.9		(1.0)	1.9	_		
DeRidder restructuring (d)		_		_	_	(3.8)	1	.5 (2.3)
Integration-related and other costs (e)		_		_	_	2.4	(0	.7) 1.7
Sale of St. Helens paper mill site (f)		_		_	_	(6.7)	2	.3 (4.4)
Total special items		4.9		(1.6)	3.3	(8.1)	3	(5.0)
Excluding special items	\$ 18	7.9	\$	(65.3) \$	122.6	\$ 189.6	\$ (66	5.8) \$ 122.8

	Nine Months Ended September 30								
	2016 2015								
	ŀ	ncome pefore Taxes	Inc	ome Taxes	Net Income	Income before Taxes	Income Taxes	Net Income	
As reported in accordance with GAAP	\$	519.9	\$	(181.0) \$	338.9	\$ 510.9	\$ (178.3)	\$ 332.6	
Special items:									
Facilities closure costs (a)		6.5		(2.2)	4.3	_	_	_	
Acquisition-related costs (b)		3.2		(1.1)	2.1	_	_	_	
Multiemployer pension plan withdrawal (c)		0.9		(0.3)	0.6	_	_	_	
DeRidder restructuring (d)		_		_	_	5.4	(1.8)	3.6	
Integration-related and other costs (e)		_		_	_	9.6	(3.3)	6.3	
Sale of St. Helens paper mill site (f)		_		_	_	(6.7)	2.3	(4.4)	
Total special items		10.6		(3.6)	7.0	8.3	(2.8)	5.5	
Excluding special items	\$	530.5	\$	(184.6) \$	345.9	\$ 519.2	\$ (181.1)	\$ 338.1	

- (a) The three and nine months ended September 30, 2016 include closure costs related to corrugated products facilities and a paper products facility. The closure costs are recorded within "Other expense, net" and "Cost of sales", as appropriate.
- (b) The three and nine months ended September 30, 2016 include acquisition-related costs for the TimBar Corporation acquisition, which we recorded in "Other expense, net" and "Cost of sales", as appropriate.
- (c) The nine months ended September 30, 2016 include costs related to our withdrawal from a multiemployer pension plan for one of our corrugated products facilities. The costs are recorded in "Other expense, net".
- (d) The three and nine months ended September 30, 2015 include restructuring charges at our mill in DeRidder, Louisiana. The restructuring charges primarily related to accelerated depreciation and were mostly recorded in "Cost of sales".
- (e) The three and nine months ended September 30, 2015 include Boise acquisition integration-related and other costs, mostly recorded in "Other income (expense), net". These costs primarily relate to professional fees, severance, retention, relocation, travel, and other integration-related costs.
- (f) In September 2015, we sold the remaining land, buildings, and equipment at our paper mill site in St. Helens, Oregon, where we ceased paper production in December 2012. We recorded the gain on the sale in "Other income (expense), net".

The following table reconciles net income to EBITDA and EBITDA excluding special items for the periods indicated (dollars in millions):

	Three Months E	ndec	l September 30		Nine Moi Septei		
	 2016		2015		2016		2015
Net income	\$ 119.3	\$	127.8	\$	338.9	\$	332.6
Interest expense, net	23.4		21.7		67.5		63.2
Income tax provision	63.7		69.9		181.0		178.3
Depreciation, amortization, and depletion	88.0		87.7		264.3		267.9
EBITDA	\$ 294.4	\$	307.1	\$	851.7	\$	842.0
Special items:		-					
Facilities closure costs	1.6		_		5.7		_
Acquisition-related costs	2.9		_		3.2		_
Multiemployer pension plan withdrawal	_		_		0.9		_
DeRidder restructuring	_		(3.8)		_		(3.6)
Integration-related and other costs	_		2.4		_		9.6
Sale of St. Helens paper mill site	_		(6.7)				(6.7)
EBITDA excluding special items	\$ 298.9	\$	299.0	\$	861.5	\$	841.3

The following table reconciles segment income (loss) to EBITDA and EBITDA excluding special items (dollars in millions):

		Three Months	Ended	d September		Nine Mor Septer			
		2016		2015		2016		2015	
Packaging									
Segment income	\$	179.6	\$	198.2	\$	533.5	\$	533.9	
Depreciation, amortization, and depletion		72.0		73.5		217.3		224.2	
EBITDA		251.6		271.7		750.8		758.1	
Facilities closure costs		1.5		_		4.8		_	
Acquisition-related costs		2.9		_		2.9		_	
Multiemployer pension plan withdrawal		_		_		0.9		_	
DeRidder restructuring		_		(3.8)		_		(3.6)	
Integration-related and other costs		_		_		_		2.7	
EBITDA excluding special items	\$	256.0	\$	267.9	\$	759.4	\$	757.2	
Paper									
Segment income	\$	44.5	\$	39.5	\$	105.0	\$	98.6	
Depreciation, amortization, and depletion		14.7		13.3		43.2		40.6	
EBITDA		59.2		52.8		148.2		139.2	
Facilities closure costs		0.1		_		0.9			
Sale of St. Helens paper mill site		_		(6.7)		_		(6.7)	
EBITDA excluding special items	\$	59.3	\$	46.1	\$	149.1	\$	132.5	
Corporate and Other									
Segment loss	\$	(17.7)	\$	(18.3)	\$	(51.1)	\$	(58.4)	
Depreciation, amortization, and depletion	Ψ	1.3	Ψ	0.9	Ψ	3.8	Ψ	3.1	
EBITDA		(16.4)		(17.4)		(47.3)		(55.3)	
Acquisition-related costs	<u> </u>	(====)				0.3		(55.5)	
Integration-related and other costs		_		2.4		_		6.9	
EBITDA excluding special items	\$	(16.4)	\$	(15.0)	\$	(47.0)	\$	(48.4)	
EBITDA excluding special items	\$	298.9	\$	299.0	\$	861.5	\$	841.3	

# **Market Risk and Risk Management Policies**

PCA is exposed to the impact of interest rate changes and changes in the market value of its financial instruments. We periodically enter into derivatives to minimize these risks, but not for trading purposes. At September 30, 2016 we had no derivative instruments outstanding. For a discussion of derivatives and hedging activities, see Note 14, Derivative Instruments and Hedging Activities, of the Notes to Consolidated Financial Statements in "Part II, Item 8. Financial Statements and Supplementary Data" of our 2015 Annual Report on Form 10-K.

The interest rates on approximately 62% of PCA's debt are fixed. A one percent increase in interest rates related to variable-rate debt would have resulted in an increase in interest expense and a corresponding decrease in income before taxes of approximately \$10 million annually.

#### **Off-Balance-Sheet Activities**

The Company does not have any off-balance sheet arrangements as of September 30, 2016.

#### **Environmental Matters**

Except as described below, there have been no material changes to the disclosure set forth in Item 7. "Management's Discussion and Analysis of Financial Condition and Results of Operations - Environmental Matters" filed with our 2015 Annual Report on Form 10-K. In July 2016, the U.S. Court of Appeals for the District of Columbia Circuit issued a ruling on the consolidated cases challenging Boiler MACT. The court vacated key portions of the rule, including emission limits for certain subcategories of solid fuel boilers, and remanded other issues to the EPA for further rulemaking. At this time, we cannot predict with certainty how the recent decision will impact our expected costs to comply with any revised Boiler MACT standards.

#### **Critical Accounting Policies and Estimates**

Management's discussion and analysis of financial condition and results of operations are based upon the Company's consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America. The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses, and related disclosures of contingent assets and liabilities. On an ongoing basis, PCA evaluates its estimates, including those related to pensions and other postretirement benefits, goodwill and intangible assets, long-lived asset impairment, and income taxes, among others. PCA bases its estimates on historical experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions.

PCA has included in its 2015 Annual Report on Form 10-K a discussion of its critical accounting policies and estimates which require management's most difficult, subjective, or complex judgments used in the preparation of its consolidated financial statements. PCA has not had any changes to these critical accounting estimates during the first nine months of 2016.

#### **New and Recently Adopted Accounting Standards**

For a listing of our new and recently adopted accounting standards, see Note 17, New and Recently Adopted Accounting Standards, of the Condensed Notes to Unaudited Quarterly Consolidated Financial Statements in "Part I, Item 1. Financial Statements" of this Form 10-Q.

#### **Forward-Looking Statements**

Some of the statements in this Quarterly Report on Form 10-Q, and in particular, statements found in this Management's Discussion and Analysis of Financial Condition and Results of Operations, that are not historical in nature are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are often identified by the words "will," "should," "anticipate," "believe," "expect," "intend," "estimate," "hope," or similar expressions. These statements reflect management's current views with respect to future events and are subject to risks and uncertainties. There are important factors that could cause actual results to differ materially from those in forward-looking statements, many of which are beyond our control. These factors, risks and uncertainties include the following:

- · the impact of general economic conditions;
- the impact of acquired businesses and risks and uncertainties regarding operation, expected benefits and integration of such businesses;
- containerboard, corrugated products, and white paper general industry conditions, including competition, product demand, product pricing, and input costs;
- fluctuations in wood fiber and recycled fiber costs;
- fluctuations in purchased energy costs;
- the possibility of unplanned outages or interruptions at our principal facilities; and
- · legislative or regulatory actions or requirements, particularly concerning environmental or tax matters.

Our actual results, performance or achievement could differ materially from those expressed in, or implied by, these forward-looking statements, and accordingly, we can give no assurances that any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do occur, what impact they will have on our results of operations or

financial condition. Given these uncertainties, investors are cautioned not to place undue reliance on these forward-looking statements. We expressly disclaim any obligation to publicly revise any forward-looking statements that have been made to reflect the occurrence of events after the date hereof. For a discussion of other factors, risks and uncertainties that may affect our business, see Item 1A. Risk Factors included in our Annual Report on Form 10-K for the year ended December 31, 2015.

# Item 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

For a discussion of market risks related to PCA, see Part I, Item 2, "Management's Discussion and Analysis of Financial Condition and Results of Operations - Market Risk and Risk Management Policies" in this Quarterly Report on Form 10-Q.

#### Item 4. CONTROLS AND PROCEDURES

PCA maintains disclosure controls and procedures (as defined in Rule 13a-15(e) of the Securities Exchange Act of 1934) that are designed to provide reasonable assurance that information required to be disclosed in PCA's filings under the Securities Exchange Act is recorded, processed, summarized and reported within the periods specified in the rules and forms of the SEC and that such information is accumulated and communicated to PCA's management, including its Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Prior to filing this report, PCA completed an evaluation under the supervision and with the participation of PCA's management, including PCA's Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of PCA's disclosure controls and procedures as of September 30, 2016. The evaluation of PCA's disclosure controls and procedures included a review of the controls' objectives and design, PCA's implementation of the controls, and the effect of the controls on the information generated for use in this report. Based on this evaluation, PCA's Chief Executive Officer and Chief Financial Officer concluded that PCA's disclosure controls and procedures were effective at the reasonable assurance level as of September 30, 2016.

# **Changes in Internal Control over Financial Reporting**

On August 29, 2016, PCA acquired TimBar Corporation ("Timbar"). We are currently in the process of evaluating and integrating Timbar's controls over financial reporting which may result in changes or additions to PCA's internal control over financial reporting. Under guidelines established by the SEC, companies are permitted to exclude acquisitions from their assessment of internal control over financial reporting during the first year of an acquisition while integrating the acquired company. We expect to exclude TimBar from the assessment of internal control over financial reporting at December 31, 2016. Except as may relate to the TimBar acquisition, there were no other changes in our internal control over financial reporting (as defined in Rule 13a-15(f) under the Exchange Act) that occurred during the quarter ended September 30, 2016 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. As of and for the quarter ended September 30, 2016, TimBar accounted for approximately 6% of the Company's consolidated total assets and 2% of consolidated sales.

#### PART II OTHER INFORMATION

#### Item 1. LEGAL PROCEEDINGS

The disclosure set forth under the caption "Legal Proceedings" in Note 18, Commitments, Guarantees, Indemnifications and Legal Proceedings, of the Condensed Notes to Unaudited Quarterly Consolidated Financial Statements in "Part I, Item 1. Financial Statements" of this Form 10-Q is incorporated herein by reference.

# Item 1A. RISK FACTORS

There have been no material changes to the risk factors disclosed in "Part I, Item 1A. Risk Factors" in our Annual Report on Form 10-K for the year ended December 31, 2015.

# Item 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

The following table presents information related to our repurchases of common stock made under share repurchase authorizations approved by our board of directors on February 25, 2016 and shares withheld to cover taxes on vesting of equity awards, during the three months ended September 30, 2016:

Issuer Purchases of Equity Securities								
Period	Total Number of Shares Purchased (a)	Ave	rage Price Paid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	1	Approximate Dollar Value of Shares That May Yet Be Purchased Under the Plans or Programs (in millions)		
		_			_	,		
July 1-31, 2016	1,102	\$	67.13	_	\$	193.0		
August 1-31, 2016	1,747		67.72	_		193.0		
September 1-30, 2016			<u> </u>	_		193.0		
Total	2,849	\$	67.49	_	\$	193.0		

<sup>(</sup>a) All shares were withheld from employees to cover income and payroll taxes on equity awards that vested during the period.

# Item 3. DEFAULTS UPON SENIOR SECURITIES

None.

# Item 4. MINE SAFETY DISCLOSURES

Not applicable.

# Item 5. OTHER INFORMATION

None.

# Item 6. EXHIBITS

Exhibit Number	Description
10.1	Amended and Restated Credit Agreement, dated as of August 29, 2016, by and among PCA and the lenders and agents named therein (incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed by the registrant on September 1, 2016).
31.1	Certification of Chief Executive Officer, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. †
31.2	Certification of Chief Financial Officer, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002. †
32	Certification of Chief Executive Officer and Chief Financial Officer Pursuant to 18 U.S.C. §1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002. †
101	The following financial information from Packaging Corporation of America's Quarterly Report on Form 10-Q for the quarter ended September 30, 2016, formatted in XBRL (eXtensible Business Reporting Language): (i) Consolidated Statements of Income and Comprehensive Income for the three and nine months ended September 30, 2016 and 2015, (ii) Consolidated Balance Sheets at September 30, 2016 and December 31, 2015, (iii) Consolidated Statements of Cash Flows for the nine months ended September 30, 2016 and 2015, and (iv) the Condensed Notes to Unaudited Quarterly Consolidated Financial Statements. †

<sup>†</sup> Filed herewith.

# **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.

Packaging Corporation of America

/s/ MARK W. KOWLZAN

Mark W. Kowlzan

Chief Executive Officer

/s/ Robert P. Mundy

Robert P. Mundy

Senior Vice President and Chief Financial Officer

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

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

/s/ Mark W. Kowlzan

Mark W. Kowlzan Chief Executive Officer

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

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

/s/ Robert P. Mundy

Robert P. Mundy

Senior Vice President and Chief Financial Officer

# CERTIFICATIONS OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER PURSUANT TO 18 U.S.C. §1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Mark W. Kowlzan, Chief Executive Officer of Packaging Corporation of America (the "Company"), certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

- (1) The Quarterly Report of the Company on Form 10-Q for the period ended September 30, 2016 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (2) The information contained in such Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Mark W. Kowlzan

Mark W. Kowlzan
Chief Executive Officer

Date: November 4, 2016

- I, Robert P. Mundy, Chief Financial Officer of Packaging Corporation of America (the "Company"), certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:
  - (1) The Quarterly Report of the Company on Form 10-Q for the period ended September 30, 2016 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
  - (2) The information contained in such Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

/s/ Robert P. Mundy

Robert P. Mundy

Senior Vice President and Chief Financial Officer