

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

FORM 10-Q

(Mark One)

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

For the quarterly period ended June 27, 2014

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

For the transition period from to

Commission file number 001-15885

MATERION CORPORATION

(Exact name of Registrant as specified in charter)

Ohio

(State or other jurisdiction of incorporation or organization)

34-1919973

(I.R.S. Employer Identification No.)

6070 Parkland Blvd., Mayfield Hts., Ohio

(Address of principal executive offices)

44124

(Zip Code)

Registrant's telephone number, including area code:

216-486-4200

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

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

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

Large accelerated filer ☐ Accelerated filer ☒ Non-accelerated filer ☐ 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 ☐ No ☒

As of July 22, 2014, there were 20,649,612 common shares, no par value, outstanding.

PART I FINANCIAL INFORMATION

MATERION CORPORATION AND SUBSIDIARIES

Item 1. Financial Statements

The consolidated financial statements of Materion Corporation and its subsidiaries for the second quarter and first half ended June 27, 2014 are as follows:

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Materion Corporation and Subsidiaries
Consolidated Statements of Income
(Unaudited)

(Thousands, except per share amounts)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Net sales	\$ 287,965	\$ 306,141	\$ 546,894	\$ 605,310
Cost of sales	238,164	260,149	451,631	510,979
Gross margin	49,801	45,992	95,263	94,331
Selling, general and administrative expense	34,685	33,327	65,945	66,106
Research and development expense	3,443	3,154	6,230	6,711
Other—net	(2,895)	2,950	(2,533)	5,431
Operating profit	14,568	6,561	25,621	16,083
Interest expense—net	672	813	1,367	1,641
Income before income taxes	13,896	5,748	24,254	14,442
Income tax expense	3,922	1,593	6,949	3,502
Net income	<u>\$ 9,974</u>	<u>\$ 4,155</u>	<u>\$ 17,305</u>	<u>\$ 10,940</u>
Basic earnings per share:				
Net income per share of common stock	<u>\$ 0.48</u>	<u>\$ 0.20</u>	<u>\$ 0.84</u>	<u>\$ 0.53</u>
Diluted earnings per share:				
Net income per share of common stock	<u>\$ 0.47</u>	<u>\$ 0.20</u>	<u>\$ 0.82</u>	<u>\$ 0.52</u>
Cash dividends per share	<u>\$ 0.085</u>	<u>\$ 0.080</u>	<u>\$ 0.165</u>	<u>\$ 0.155</u>
Weighted-average number of shares of common stock outstanding:				
Basic	20,642	20,566	20,625	20,524
Diluted	21,001	20,869	20,983	20,845

See Notes to Consolidated Financial Statements.

Materion Corporation and Subsidiaries
Consolidated Statements of Comprehensive Income
(Unaudited)

(Thousands)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Net income	\$ 9,974	\$ 4,155	\$ 17,305	\$ 10,940
Other comprehensive income:				
Foreign currency translation adjustment	126	(626)	715	(3,380)
Derivative and hedging activity, net of tax	80	(247)	87	155
Pension and post employment benefit adjustment, net of tax	542	1,220	9,925	2,439
Net change in accumulated other comprehensive income	748	347	10,727	(786)
Comprehensive income	<u>\$ 10,722</u>	<u>\$ 4,502</u>	<u>\$ 28,032</u>	<u>\$ 10,154</u>

See Notes to Consolidated Financial Statements.

Materion Corporation and Subsidiaries
Consolidated Balance Sheets
(Unaudited)

(Thousands)	Jun. 27, 2014	Dec. 31, 2013
Assets		
Current assets		
Cash and cash equivalents	\$ 18,062	\$ 22,774
Accounts receivable	121,766	113,012
Inventories	254,790	232,800
Prepaid expenses	16,645	16,353
Deferred income taxes	10,345	9,566
Total current assets	421,608	394,505
Long-term deferred income taxes	2,049	4,672
Property, plant and equipment—cost	790,154	782,879
Less allowances for depreciation, depletion and amortization	(538,095)	(520,986)
Property, plant and equipment—net	252,059	261,893
Intangible assets	21,534	24,248
Other assets	4,851	3,874
Goodwill	88,753	88,753
Total assets	\$ 790,854	\$ 777,945
Liabilities and shareholders' equity		
Current liabilities		
Short-term debt	\$ 33,368	\$ 35,566
Accounts payable	32,959	36,556
Other liabilities and accrued items	47,832	54,851
Income taxes	7,015	1,564
Unearned revenue	2,116	479
Total current liabilities	123,290	129,016
Other long-term liabilities	16,252	16,531
Retirement and post-employment benefits	56,949	80,275
Unearned income	54,143	56,490
Long-term income taxes	1,576	1,576
Deferred income taxes	3,842	1,469
Long-term debt	46,945	29,267
Shareholders' equity		
Common stock	200,078	197,576
Retained earnings	455,379	441,518
Common stock in treasury	(121,306)	(118,151)
Other comprehensive income (loss)	(49,161)	(59,888)
Other equity transactions	2,867	2,266
Total shareholders' equity	487,857	463,321
Total liabilities and shareholders' equity	\$ 790,854	\$ 777,945

See Notes to Consolidated Financial Statements.

Materion Corporation and Subsidiaries
Consolidated Statements of Cash Flows
(Unaudited)

(Thousands)	First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013
Cash flows from operating activities:		
Net income	\$ 17,305	\$ 10,940
Adjustments to reconcile net income to net cash used in operating activities:		
Depreciation, depletion and amortization	22,093	18,656
Amortization of deferred financing costs in interest expense	356	325
Stock-based compensation expense	3,027	2,676
Changes in assets and liabilities net of acquired assets and liabilities:		
Decrease (increase) in accounts receivable	(8,680)	(5,156)
Decrease (increase) in inventory	(16,559)	4,212
Decrease (increase) in prepaid and other current assets	(2,658)	9,029
Decrease (increase) in deferred income taxes	58	1,166
Increase (decrease) in accounts payable and accrued expenses	(8,965)	(27,143)
Increase (decrease) in unearned revenue	1,637	(1,077)
Increase (decrease) in interest and taxes payable	5,432	177
Increase (decrease) in long-term liabilities	(11,419)	2,409
Other-net	(3,111)	1,906
Net cash (used in) provided from operating activities	(1,484)	18,120
Cash flows from investing activities:		
Payments for purchase of property, plant and equipment	(12,859)	(13,023)
Payments for mine development	(337)	(4,382)
Proceeds from sale of property, plant and equipment	3,009	67
Other investments-net	(2)	20
Net cash used in investing activities	(10,189)	(17,318)
Cash flows from financing activities:		
Repayment of short-term debt	(4,886)	(12,729)
Proceeds from issuance of long-term debt	33,170	70,240
Repayment of long-term debt	(15,492)	(55,541)
Debt issuance costs	—	(1,301)
Principal payments under capital lease obligations	(328)	(329)
Payment of dividends	(3,405)	(3,198)
Repurchase of common stock	(2,672)	—
Issuance of common stock under stock option plans	360	849
Tax benefit from stock compensation realization	109	1,316
Net cash provided from (used in) financing activities	6,856	(693)
Effects of exchange rate changes	105	(439)
Net change in cash and cash equivalents	(4,712)	(330)
Cash and cash equivalents at beginning of period	22,774	16,056
Cash and cash equivalents at end of period	\$ 18,062	\$ 15,726

See Notes to Consolidated Financial Statements.

Note A — Accounting Policies

In management's opinion, the accompanying consolidated financial statements contain all adjustments necessary to present fairly the financial position as of June 27, 2014 and December 31, 2013 and the results of operations for the three months and first half ended June 27, 2014 and June 28, 2013. All adjustments were of a normal and recurring nature. Certain amounts in prior years have been reclassified to conform to the 2014 consolidated financial statement presentation.

In May 2014, the Financial Accounting Standards Board ("FASB") issued an Accounting Standards Update, *Revenue from Contracts with Customers*, which supersedes previous revenue recognition guidance. The new standard requires that a company recognize revenue when it transfers promised goods or services to customers in an amount that reflects the consideration the company expects to receive in exchange for those goods or services. Companies will need to use more judgment and estimates than under the guidance currently in effect, including estimating the amount of variable revenue to recognize over each identified performance obligation. Additional disclosures will be required to help users of financial statements understand the nature, amount and timing of revenue and cash flows arising from contracts. The new standard will become effective for the Company beginning with the first quarter 2017 and can be adopted either retrospectively to each prior reporting period presented or as a cumulative effect adjustment as of the date of adoption. The Company is currently evaluating the impact of adopting this new guidance on the consolidated financial statements.

Note B — Inventories

Inventories on the Consolidated Balance Sheets are summarized as follows:

(Thousands)	June 27, 2014	Dec. 31, 2013
Principally average cost:		
Raw materials and supplies	\$ 38,960	\$ 39,201
Work in process	170,510	152,645
Finished goods	45,320	40,954
Net inventories	<u>\$ 254,790</u>	<u>\$ 232,800</u>

The December 31, 2013 balance reflects a reclassification of \$19.4 million from prepaid assets to inventory. The Company determined it was more appropriate to reflect the fair market value adjustment related to certain of its precious metal inventory as inventory. The reclassification did not impact previously reported total current assets or total assets in the accompanying consolidated balance sheets, net income in the consolidated statements of income or net cash provided by operating activities in the consolidated statements of cash flows.

Note C — Pensions and Other Post-employment Benefits

The following is a summary of the second quarter and first half 2014 and 2013 net periodic benefit cost for the domestic pension plans (which include the defined benefit plan and the supplemental retirement plans) and the domestic retiree medical plan.

(Thousands)	Pension Benefits		Other Benefits	
	Second Quarter Ended		Second Quarter Ended	
	June 27, 2014	June 28, 2013	June 27, 2014	June 28, 2013
Components of net periodic benefit cost				
Service cost	\$ 1,936	\$ 2,356	\$ 34	\$ 76
Interest cost	2,444	2,353	169	311
Expected return on plan assets	(3,013)	(2,996)	—	—
Amortization of prior service cost (benefit)	(109)	(86)	(374)	29
Amortization of net loss	1,275	1,933	—	—
Net periodic benefit cost (benefit)	<u>\$ 2,533</u>	<u>\$ 3,560</u>	<u>\$ (171)</u>	<u>\$ 416</u>

(Thousands)	Pension Benefits		Other Benefits	
	First Half Ended		First Half Ended	
	June 27, 2014	June 28, 2013	June 27, 2014	June 28, 2013
Components of net periodic benefit cost				
Service cost	\$ 3,872	\$ 4,711	\$ 69	\$ 152
Interest cost	4,888	4,707	337	622
Expected return on plan assets	(6,025)	(5,992)	—	—
Amortization of prior service cost (benefit)	(218)	(170)	(749)	58
Amortization of net loss	2,550	3,865	—	—
Net periodic benefit cost	<u>\$ 5,067</u>	<u>\$ 7,121</u>	<u>\$ (343)</u>	<u>\$ 832</u>

The Company made contributions to the domestic defined benefit pension plan of \$11.8 million in the first half of 2014.

The Company has notified participants of changes to the domestic retiree medical plan, including changing the benefit formula for participants covered by the plan. The revised benefit formula is designed to lower costs for the Company and the majority of plan participants. As a result of this change, the plan liability on the Company's Consolidated Balance Sheet was reduced by \$14.0 million in the first quarter 2014, with the offset increasing other comprehensive income, a component of shareholders' equity. The liability reduction will be recognized in earnings over the average remaining service life of participants.

Note D — Contingencies

Materion Brush Inc., one of the Company's wholly owned subsidiaries, is a defendant from time to time in legal proceedings where the plaintiffs allege they have contracted chronic beryllium disease (CBD) or related ailments as a result of exposure to beryllium. The Company will record a reserve for CBD or other litigation when a loss from either settlement or verdict is probable and estimable. Claims filed by third-party plaintiffs where the alleged exposure occurred prior to December 31, 2007 may be covered by insurance subject to an annual deductible of \$1.0 million. Reserves are recorded for asserted claims only and defense costs are expensed as incurred. Two CBD cases, which were filed in prior periods, were outstanding as of the end of the second quarter 2014. A loss reserve of \$0.2 million was recorded for these two cases as of the end of the second quarter 2014. No other CBD cases were filed or dismissed during the first half of 2014.

The Company has an active environmental compliance program and records reserves for the probable cost of identified environmental remediation projects. The reserves are established based upon analyses conducted by the Company's engineers and outside consultants and are adjusted from time to time based upon ongoing studies, the difference between actual and estimated costs and other factors. The reserves may also be affected by rulings and negotiations with regulatory agencies. The undiscounted

reserve balance was \$4.8 million at June 27, 2014 and \$4.8 million at December 31, 2013. Environmental projects tend to be long term and the final actual remediation costs may differ from the amounts currently recorded.

Early in the second quarter 2014, the Company reached an agreement with its insurance carrier to settle the outstanding precious metal theft claim for \$6.8 million. The cash was received and the benefit of this settlement was recorded in the Company's financial statements in the second quarter 2014 in other-net in the consolidated statements of income.

Note E — Segment Reporting

(Thousands)	Advanced Material Technologies	Performance Alloys	Beryllium and Composites	Technical Materials	Subtotal	All Other	Total
Second Quarter 2014							
Sales to external customers	\$ 179,112	\$ 76,741	\$ 16,598	\$ 15,514	\$ 287,965	\$ —	\$ 287,965
Intersegment sales	579	483	163	99	1,324	—	1,324
Operating profit (loss)	11,495	5,229	(1,812)	959	15,871	(1,303)	14,568
Second Quarter 2013							
Sales to external customers	\$ 196,011	\$ 74,335	\$ 16,187	\$ 19,608	\$ 306,141	\$ —	\$ 306,141
Intersegment sales	777	611	63	214	1,665	—	1,665
Operating profit (loss)	(2,286)	6,898	822	2,389	7,823	(1,262)	6,561
First Half 2014							
Sales to external customers	\$ 342,309	\$ 143,426	\$ 32,095	\$ 29,064	\$ 546,894	\$ —	\$ 546,894
Intersegment sales	1,076	1,002	310	219	2,607	—	2,607
Operating profit (loss)	19,099	8,778	(710)	1,141	28,308	(2,687)	25,621
Assets	314,125	273,078	145,433	22,184	754,820	36,034	790,854
First Half 2013							
Sales to external customers	\$ 389,864	\$ 148,857	\$ 28,509	\$ 38,080	\$ 605,310	\$ —	\$ 605,310
Intersegment sales	1,525	1,041	133	444	3,143	—	3,143
Operating profit (loss)	1,065	14,134	(474)	3,825	18,550	(2,467)	16,083
Assets	318,917	266,561	141,509	24,530	751,517	47,226	798,743

Note F — Stock-based Compensation Expense

Stock-based compensation expense was \$1.6 million in the second quarter 2014 and \$1.5 million in the second quarter 2013. For the first half of the year, stock-based compensation expense was \$3.0 million in 2014 and \$2.7 million in 2013.

The Company granted approximately 144,000 stock appreciation rights (SARs) to certain employees in the second quarter 2014 at a strike price of \$33.29 per share. The fair value of the SARs, which was determined on the grant date using a Black-Scholes model, was \$12.48 per share and will be amortized over the vesting period of three years. The SARs expire in seven years from the date of the grant.

The Company granted approximately 38,000 shares of restricted stock units to certain employees in the second quarter 2014 at a weighted-average fair value of \$33.29 per share. The fair value was determined using the closing price of the Company's common stock on the grant date and will be amortized over the vesting period of three years. The holders of the restricted stock units will forfeit their shares if their employment is terminated prior to the end of the vesting period.

The Company granted approximately 25,000 performance-based restricted stock units to certain employees in the first quarter 2014 at a fair value of \$26.02 per share. The fair value will be expensed over the vesting period of three years. The final share payout to the employees will be based upon the Company's total return to shareholders over the vesting period relative to a peer group's performance over the same period.

The Company received \$0.4 million for the exercise of approximately 21,000 options during the first half of 2014 and \$0.8 million for the exercise of approximately 56,000 options during the first half of 2013. Exercises of stock appreciation rights totaled approximately 39,000 in the first half of 2014 and 57,000 in the first half of 2013.

Note G — Other-net

Other-net income (expense) for the second quarter and first half of 2014 and 2013 is summarized as follows:

(Thousands)	Second Quarter Ended		First Half Ended	
	June 27, 2014	June 28, 2013	June 27, 2014	June 28, 2013
Foreign currency exchange/translation (loss) gain	\$ (423)	\$ 426	\$ (475)	\$ 1,145
Amortization of intangible assets	(1,310)	(1,324)	(2,433)	(2,642)
Metal consignment fees	(1,846)	(1,701)	(3,712)	(3,518)
Net gain (loss) on disposal of fixed assets	(27)	—	2,610	—
Recovery from insurance	6,750	—	6,750	—
Other items	(249)	(351)	(207)	(416)
Total	<u>\$ 2,895</u>	<u>\$ (2,950)</u>	<u>\$ 2,533</u>	<u>\$ (5,431)</u>

Note H — Income Taxes

The tax expense of \$3.9 million in the second quarter 2014 was calculated by applying a rate of 28.2% against income before income taxes, while the tax expense of \$1.6 million in the second quarter 2013 was calculated by applying a rate of 27.7% against the income before income taxes in that period.

In the first half of 2014, the tax expense of \$6.9 million was calculated using an effective tax rate of 28.7% , while the tax expense of \$3.5 million in the first half of 2013 was calculated using an effective tax rate of 24.2% .

The differences between the statutory and effective rates in the second quarter and first half of both years was due to the impact of percentage depletion, the production deduction, foreign source income and deductions, executive compensation, state and local taxes and other factors. The research and experimentation credit also provided a benefit in the second quarter and first half of 2013, but there was no tax benefit recorded in the first half of 2014 as the U.S. Congress has not extended the credit for 2014.

Discrete tax benefits totaling \$0.6 million were recorded in the first half of 2013, primarily for adjustments for the prior year research and experimentation credit. The net discrete items were immaterial in the first half of 2014.

Note I — Depreciation and Amortization

The Company received \$63.5 million from the U.S. Department of Defense (DoD) in previous periods for reimbursement of the DoD's share of the cost of capital equipment acquired by the Company under a Title III contract. The Company recorded the cost of the equipment in property, plant and equipment and the reimbursements as unearned income, a liability on the Consolidated Balance Sheets. The equipment was placed in service during the third quarter 2012 and its full cost is being depreciated in accordance with Company policy. The unearned income liability is being reduced ratably with the depreciation expense recorded over the life of the equipment.

In the first half of 2014, the depreciation expense on the equipment subject to reimbursement was \$2.3 million . Unearned income was reduced by \$2.3 million , accordingly, with the offset recorded as a credit to cost of sales. Depreciation, depletion and amortization expense on the Consolidated Statement of Cash Flows is shown net of the reduction in unearned income.

Amortization of mine development costs are initially recorded in inventory and subsequently recorded into cost of sales in the period that the inventory is sold. Depreciation, depletion and amortization depicted on the Consolidated Statement of Cash Flows, including the mine development costs amortized into inventory, totaled \$22.1 million in the first half of 2014 and \$18.7 million in the first half of 2013. Depreciation, depletion and amortization expense recorded in operating profit in the Consolidated Statement of Income totaled \$19.9 million in the first half of 2014 and \$19.5 million in the first half of 2013.

Note J — Fair Value of Financial Instruments

The Company measures and records financial instruments at their fair values. A fair value hierarchy is used for those instruments measured at fair value that distinguishes between assumptions based on market data (observable inputs) and the Company's assumptions (unobservable inputs). The hierarchy consists of three levels:

Level 1 — Quoted market prices in active markets for identical assets and liabilities;

Level 2 — Inputs other than Level 1 inputs that are either directly or indirectly observable; and

Level 3 — Unobservable inputs developed using estimates and assumptions developed by the Company, which reflect those that a market participant would use.

The following table summarizes the financial instruments measured at fair value in the Consolidated Balance Sheets as of June 27, 2014:

(Thousands)	Total	Fair Value Measurements		
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Financial Assets				
Directors’ deferred compensation investments	\$ 328	\$ 328	\$ —	\$ —
Foreign currency forward contracts	36	—	36	—
Total	<u>\$ 364</u>	<u>\$ 328</u>	<u>\$ 36</u>	<u>\$ —</u>
Financial Liabilities				
Directors’ deferred compensation liability	\$ 328	\$ 328	\$ —	\$ —
Foreign currency forward contracts	5	—	5	—
Total	<u>\$ 333</u>	<u>\$ 328</u>	<u>\$ 5</u>	<u>\$ —</u>

The Company uses a market approach to value the assets and liabilities for outstanding derivative contracts in the table above. Outstanding contracts are valued through models that utilize market observable inputs including both spot and forward prices for the same underlying currencies and metals. The carrying values of the other working capital items and debt on the Consolidated Balance Sheets approximate their fair values as of June 27, 2014.

Note K — Derivative Instruments and Hedging Activity

The Company uses derivative contracts to hedge portions of its foreign currency and precious metal exposures. The objectives for using derivatives in these areas are as follows:

Foreign Currency . The Company sells products to overseas customers in their local currencies, primarily the euro and yen. The Company uses foreign currency derivatives, mainly forward contracts and options, to hedge these anticipated sales transactions. The purpose of the hedge program is to protect against the reduction in dollar value of the foreign currency sales from adverse exchange rate movements. Should the dollar strengthen significantly, the decrease in the translated value of the foreign currency sales should be partially offset by gains on the hedge contracts. Depending upon the methods used, the hedge contract may limit the benefits from a weakening U.S. dollar.

The use of forward contracts locks in a firm rate and eliminates any downside from an adverse rate movement as well as any benefit from a favorable rate movement. The Company may from time to time choose to hedge with options or a tandem of options known as a collar. These hedging techniques can limit or eliminate the downside risk but can allow for some or all of the benefit from a favorable rate movement to be realized. Unlike a forward contract, a premium is paid for an option; collars, which are a combination of a put and call option, may have a net premium but they can be structured to be cash neutral. The Company will primarily hedge with forward contracts due to the relationship between the cash outlay and the level of risk.

The use of foreign currency derivative contracts is governed by policies approved by the Audit Committee of the Board of Directors. A team consisting of senior financial managers reviews the estimated exposure levels, as defined by budgets, forecasts and other internal data, and determines the timing, amounts and instruments to use to hedge that exposure within the confines of the policy. Management analyzes the effective hedged rates and the actual and projected gains and losses on the hedging transactions against the program objectives, targeted rates and levels of risk assumed. Hedge contracts are typically layered in at different times for a specified exposure period in order to minimize the impact of rate movements.

Precious Metals . The Company maintains the majority of its precious metal production requirements on consignment in order to reduce the working capital investment and the exposure to metal price movements. When a precious metal product is fabricated and ready for shipment to the customer, the metal is purchased out of consignment at the current market price and that price forms the basis for the price to be charged to the customer.

In certain circumstances, a customer may want to establish the price for the precious metal when the sales order is placed rather than at the time of the shipment. Setting the selling price at a different date than when the material would be purchased potentially creates an exposure to movements in the market price of the metal. Therefore, in these limited situations, the Company may elect to enter into a forward contract to purchase a stated quantity of precious metal at a fixed price on a specified date in the future. The price in the forward contract serves as the basis for the price to be charged to the customer. By so doing, the selling and purchase prices are matched and the Company's market price exposure is reduced.

The Company refines precious metal-containing materials for its customers and typically will purchase the refined metal from the customer at current market prices. In limited circumstances, the customer may want to fix the price to be paid at the time of the order as opposed to when the material is refined. The customer may also want to fix the price to be paid for a number of orders over a period of time. The Company may then enter into a hedge contract, either a forward contract or a swap, to fix the price for the estimated quantity of refined metal to be purchased thereby reducing the exposure to adverse movements in the market price of the metal.

The Company will only enter into a derivative contract if there is an underlying identified exposure. Contracts are typically held until maturity. The Company does not engage in derivative trading activities and does not use derivatives for speculative purposes. The Company only uses currency hedge contracts that are denominated in the same currency as the underlying exposure and precious metal hedge contracts denominated in the same metal as the underlying exposure.

All derivatives are recorded on the balance sheet at their fair values. If the derivative is designated and effective as a cash flow hedge, changes in the fair value of the derivative are recognized in other comprehensive income (OCI) until the hedged item is recognized in earnings. The ineffective portion of a derivative's fair value, if any, is recognized in earnings immediately. If a derivative is not a hedge, changes in the fair value are adjusted through income. The fair values of the outstanding derivatives are recorded on the balance sheet as assets (if the derivatives are in a gain position) or liabilities (if the derivatives are in a loss position). The fair values will also be classified as short term or long term depending upon their maturity dates.

The outstanding foreign currency forward contracts had a notional value of \$35.7 million as of June 27, 2014. All of these contracts were designated and effective as cash flow hedges. The net fair value of the outstanding contracts was less than \$0.1 million, with the asset recorded in prepaid expenses and the liability recorded in other liabilities and accrued items on the Consolidated Balance Sheets as of July 27, 2014.

There was no ineffectiveness associated with the contracts outstanding at July 27, 2014 and no ineffectiveness expense was recorded in the second quarter of first half of 2014 or 2013.

Changes in the fair value of outstanding cash flow hedges recorded in OCI totaled \$31,000 at June 27, 2014 and \$0.6 million at June 28, 2013. The Company expects to relieve substantially the entire balance in OCI as of June 27, 2014 to income on the Consolidated Statements of Income during the twelve-month period beginning June 28, 2014. See Note L to the Consolidated Financial Statements for additional OCI details.

Note L — Accumulated Other Comprehensive Income

Changes in the components of accumulated other comprehensive income, including the amounts reclassified out, for the second quarter and first half of 2014 and 2013 are as follows:

	Gains and Losses On Cash Flow Hedges					
(Thousands)	Foreign Currency	Precious Metals	Total	Pension and Post Employment Benefits	Foreign Currency Translation	Total
Accumulated other comprehensive income, as of March 28, 2014						
Gross	\$ (96)	\$ —	\$ (96)	\$ (62,058)	\$ 876	\$ (61,278)
Deferred tax (benefit)	(1,437)	—	(1,437)	(9,932)	—	(11,369)
Net	\$ 1,341	\$ —	\$ 1,341	\$ (52,126)	\$ 876	\$ (49,909)
Second quarter 2014 activity:						
Other comprehensive income (loss) before reclassifications	84	—	84	—	126	210
Amounts reclassified from accumulated other comprehensive income	43	—	43	461	—	504
Net current period other comprehensive income (loss) before tax	127	—	127	461	126	714
Deferred taxes on current period activity	47	—	47	(81)	—	(34)
Net current period other comprehensive income (loss) after tax	80	—	80	542	126	748
Accumulated other comprehensive income, as of June 27, 2014						
Gross	31	—	31	(61,597)	1,002	(60,564)
Deferred tax (benefit)	(1,390)	—	(1,390)	(10,013)	—	(11,403)
Net	\$ 1,421	\$ —	\$ 1,421	\$ (51,584)	\$ 1,002	\$ (49,161)
Accumulated other comprehensive income, as of March 29, 2013						
Gross	\$ 969	\$ —	\$ 969	\$ (125,665)	\$ 1,323	\$ (123,373)
Deferred tax (benefit)	(1,064)	—	(1,064)	(32,748)	—	(33,812)
Net	2,033	—	2,033	(92,917)	1,323	(89,561)
Second quarter 2013 activity :						
Other comprehensive income (loss) before reclassifications	13	—	13	—	(626)	(613)
Amounts reclassified from accumulated other comprehensive income	(428)	23	(405)	1,877	—	1,472
Net current period other comprehensive income (loss) before tax	(415)	23	(392)	1,877	(626)	859
Deferred taxes on current period activity	(145)	—	(145)	657	—	512
Net current period other comprehensive income (loss) after tax	(270)	23	(247)	1,220	(626)	347
Accumulated other comprehensive income, as of June 28, 2013						

Gross	554	23	577	(123,788)	697	(122,514)
Deferred tax (benefit)	(1,209)	1	(1,208)	(32,091)	—	(33,299)
Net	<u>\$ 1,763</u>	<u>\$ 22</u>	<u>\$ 1,785</u>	<u>\$ (91,697)</u>	<u>\$ 697</u>	<u>\$ (89,215)</u>

(Thousands)	Gains and Losses On Cash Flow Hedges			Pension and Post Employment Benefits	Foreign Currency Translation	Total
	Foreign Currency	Precious Metals	Total			
Accumulated other comprehensive income, as of December 31, 2013						
Gross	\$ (87)	\$ (19)	\$ (106)	\$ (77,301)	\$ 287	\$ (77,120)
Deferred tax (benefit)	(1,433)	(7)	(1,440)	(15,792)	—	(17,232)
Net	<u>\$ 1,346</u>	<u>\$ (12)</u>	<u>\$ 1,334</u>	<u>\$ (61,509)</u>	<u>\$ 287</u>	<u>\$ (59,888)</u>

First half 2014 activity:

Other comprehensive income (loss) before reclassifications	\$ (8)	\$ —	\$ (8)	\$ 14,034	\$ 715	\$ 14,741
Amounts reclassified from accumulated other comprehensive income	\$ 126	\$ 19	\$ 145	\$ 1,670	\$ —	\$ 1,815
Net current period other comprehensive income (loss) before tax	118	19	\$ 137	15,704	715	\$ 16,556
Deferred taxes on current period activity	43	7	\$ 50	5,779	—	\$ 5,829
Net current period other comprehensive income (loss) after tax	75	12	\$ 87	9,925	715	\$ 10,727

Accumulated other comprehensive income, as of June 27, 2014						
Gross	\$ 31	\$ —	\$ 31	\$ (61,597)	\$ 1,002	\$ (60,564)
Deferred tax (benefit)	(1,390)	—	\$ (1,390)	(10,013)	—	(11,403)
Net	<u>\$ 1,421</u>	<u>—</u>	<u>\$ 1,421</u>	<u>\$ (51,584)</u>	<u>\$ 1,002</u>	<u>\$ (49,161)</u>

Accumulated other comprehensive income, as of December 31, 2012						
Gross	\$ 253	\$ 97	\$ 350	\$ (127,541)	\$ 4,077	\$ (123,114)
Deferred tax (benefit)	\$ (1,314)	\$ 34	\$ (1,280)	\$ (33,405)	\$ —	\$ (34,685)
Net	<u>\$ 1,567</u>	<u>\$ 63</u>	<u>\$ 1,630</u>	<u>\$ (94,136)</u>	<u>\$ 4,077</u>	<u>\$ (88,429)</u>

First half 2013 activity

Other comprehensive income (loss) before reclassifications	\$ 872	\$ 23	\$ 895	\$ —	\$ (3,380)	\$ (2,485)
Amounts reclassified from accumulated other comprehensive income	\$ (571)	\$ (97)	\$ (668)	\$ 3,753	\$ —	\$ 3,085
Net current period other comprehensive income (loss) before tax	\$ 301	\$ (74)	\$ 227	\$ 3,753	\$ (3,380)	\$ 600

Deferred taxes on current period activity	\$ 105	\$ (33)	\$ 72	\$ 1,314	\$ —	\$ 1,386
Net current period other comprehensive income (loss) after tax	\$ 196	\$ (41)	\$ 155	\$ 2,439	\$ (3,380)	\$ (786)
Accumulated other comprehensive income, as of June 28, 2013						
Gross	554	23	\$ 577	(123,788)	697	\$ (122,514)
Deferred tax (benefit)	(1,209)	1	\$ (1,208)	(32,091)	—	\$ (33,299)
Net	<u>\$ 1,763</u>	<u>\$ 22</u>	<u>\$ 1,785</u>	<u>\$ (91,697)</u>	<u>\$ 697</u>	<u>\$ (89,215)</u>

Reclassifications from accumulated other comprehensive income of gains and losses on foreign currency cash flow hedges are recorded in other-net on the Consolidated Statements of Income while the gains and losses on precious metal cash flow hedges are recorded in cost of sales on the Consolidated Statements of Income. See Note K to the Consolidated Financial Statements for additional details on cash flow hedges.

Reclassifications from accumulated other comprehensive income for pension and post employment benefits are included in the computation of the net periodic pension and post employment benefit expense. See Note C to the Consolidated Financial Statements for additional details on pension and post employment expenses.

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

OVERVIEW

We are an integrated producer of high-performance advanced engineered materials used in a variety of electrical, electronic, thermal and structural applications. Our products are sold into numerous markets, including consumer electronics, industrial components, commercial aerospace, defense, science, energy, medical, automotive electronics, telecommunications infrastructure and appliance.

Second quarter 2014 sales of \$288.0 million were 6% lower than sales in the second quarter 2013. Value-added sales, a non-GAAP measure that removes the impact of pass-through metals, totaled \$159.6 million in the second quarter 2014, a 5% improvement over the second quarter 2013. The growth in value-added sales was largely in the consumer electronics and medical markets offset in part by softness in the defense and automotive electronics markets.

Gross margin was \$49.8 million in the second quarter 2014 compared to \$46.0 million in the second quarter 2013. The margin growth was due to the higher value-added sales, improvements in precious metal refining operations and other factors offset in part by a weaker product mix and higher material costs in portions of our business.

We reached an agreement with our insurance carrier on the precious metal theft claim that resulted in a \$6.8 million benefit in the second quarter 2014, which is included in Other-net on the Consolidated Statement of Income.

Operating profit was \$14.6 million in the second quarter 2014, an increase of \$8.0 million over the operating profit of \$6.6 million in the second quarter 2013. Earnings per share were \$0.47 in the second quarter 2014 compared to \$0.20 in the second quarter 2013.

We increased the quarterly dividend to \$0.085 per share and paid \$1.8 million to shareholders in the second quarter 2014.

Outstanding debt totaled \$86.0 million as of the end of the second quarter 2014, a \$6.9 million reduction from the end of the first quarter 2014.

RESULTS OF OPERATIONS

(Millions, except per share data)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Sales	\$ 288.0	\$ 306.1	\$ 546.9	\$ 605.3
Value-added sales	159.6	152.5	304.5	303.8
Operating profit	14.6	6.6	25.6	16.1
Income before income taxes	13.9	5.7	24.3	14.4
Net income	10.0	4.2	17.3	10.9
Diluted earnings per share	\$ 0.47	\$ 0.20	\$ 0.82	\$ 0.52

Sales of \$288.0 million in the second quarter 2014 were \$18.1 million, or 6%, lower than sales of \$306.1 million in the second quarter 2013. Sales totaled \$546.9 million in the first half of 2014, a 10% decline from sales of \$605.3 million in the first half of 2013.

The prices of key raw materials, including gold, silver and copper, were lower in the second quarter 2014 and first half of 2014 than the respective periods in 2013 and the lower pass-through metal prices reduced sales in the second quarter 2014 by an estimated \$8.1 million and by an estimated \$33.7 million in the first half of 2014. The comparison of sales between periods was also affected by changes in foreign currency translation rates, a change in the amount of customer-supplied precious metals and other factors.

Domestic sales declined approximately 8% in the second quarter 2014 from the second quarter 2013 and 12% in the first half of 2014 from the first half of 2013. International sales were 1% lower in the second quarter 2014 than the second quarter

2013 and down approximately 5% in the first half of 2014 from the first half of 2013. European sales in the first half of 2014 were 13% lower than the first half of 2013 primarily due to a decline in precious metal sales. Asian sales grew 4% in the first half of 2014 over the first half of 2013.

The cost of gold, silver, platinum, palladium and copper are typically passed through to customers and therefore movements in the prices of these metals will affect sales but may not have a proportionate impact on margins. Internally, we manage our business on a value-added sales basis. Value-added sales is a non-GAAP measure that deducts the cost of these pass-through metals from sales and removes the potential distortion caused by differences in metal values sold. Value-added sales of \$159.6 million in the second quarter 2014 improved 5% over value-added sales of \$152.5 million in the second quarter 2013. Value-added sales were \$304.5 million in the first half of 2014 compared to \$303.8 million in the first half of 2013. A reconciliation of sales to value-added sales is provided in a later section of this Management's Discussion and Analysis.

Beginning in the first quarter 2014, we revised our value-added sales by market reporting, segregating the defense and science market into two separate markets and reclassifying nuclear medical applications from the science market to the medical market. We also segregated the industrial components and commercial aerospace market into two separate markets. Prior-year data has been revised to allow for proper comparisons.

The majority of the growth in value-added sales in the second quarter 2014 was due to improvements in value-added sales to the consumer electronics market. Value-added sales to the consumer electronics market, our largest market accounting for 28% of value-added sales in the second quarter 2014, grew 15% in the second quarter 2014 over the second quarter 2013 and 10% in the first half of 2014 over the first half of 2013. Value-added sales to the medical market also improved, growing 14% in the second quarter 2014 and 2% in the first half of 2014 over the comparable periods of 2013. The second quarter 2014 growth was due to higher shipments for blood glucose test strip, nuclear medical and x-ray window applications. Improved value-added sales to the industrial components, science and appliance markets contributed to the growth in total value-added sales in the second quarter 2014 as well.

Offsetting a portion of the value-added sales growth from these markets was a decline in value-added sales to the defense market of 28% in the second quarter 2014 and 26% in the first half of 2014 from the respective periods in 2013. This decline was due to a combination of the ongoing impact of government spending cutbacks and the timing of program releases. Value-added sales to the automotive electronics market also declined 26% in the second quarter 2014 and 21% in the first half of 2014 from the fairly high shipment levels in the same periods in 2013. Value-added sales to the energy market softened in the second quarter 2014 from the second quarter 2013, but were higher in the first half of 2014 than the first half of 2013 due to a stronger first quarter 2014.

Gross margin was \$49.8 million, or 17% of sales, in the second quarter 2014 versus \$46.0 million, or 15% of sales, in the second quarter 2013. Gross margin in the first half of 2014 was \$95.3 million, or 17% of sales, compared to \$94.3 million, or 16% of sales, in the first half of 2013. Gross margin as a percent of value-added sales was 31% in the second quarter 2014 and 30% in the second quarter 2013. Gross margin was 31% of value-added sales in the first half of 2014 and 2013.

The higher value-added sales provided a benefit to gross margins in the second quarter 2014. The change in product mix was unfavorable in the second quarter 2014 as compared to the second quarter 2013 largely due to mix shifts within our Performance Alloys and Beryllium and Composites businesses. The change in product mix was favorable for the first half of 2014 as compared to the first half of 2013 due to a strong mix in the first quarter 2014 resulting in part from various high margin shipments for defense and science applications.

Improved yields and manufacturing efficiencies were made within the precious metal refining operations, which provided a margin benefit in the first half of 2014. Operating costs and input material costs were higher at the Elmore, Ohio facility in the second quarter 2014. This facility supports both the Performance Alloys and Beryllium and Composites businesses. Manufacturing overhead costs in the second quarter 2014 were unchanged from the second quarter 2013 and 4% higher in the first half of 2014 than the first half of 2013. Gross margin in the first half of 2014 was adversely impacted by the severe weather in the first quarter 2014, which caused lost production time and other inefficiencies at several of our facilities..

The facility consolidation and product line rationalization program that was initiated in the fourth quarter 2012 was substantially completed in the fourth quarter 2013, although we spent \$0.6 million in the first quarter 2014 for employee retentions, clean-up costs and other miscellaneous items (with \$0.1 million recorded in cost of sales and \$0.5 million recorded against selling, general and administrative (SG&A) expenses). Facility closure costs totaled \$0.6 million in the first half of 2013, all of which was expensed in the first quarter 2013. Savings from this program in the second quarter 2014 relative to the second quarter 2013 totaled an estimated \$3.4 million, with \$2.1 million related to reduced cost of sales and \$1.3 million related to reduced SG&A

expenses. For the first half of 2014, the estimated cost savings were \$6.6 million, with \$3.9 million related to reduced cost of sales and \$2.7 million related to reduced SG&A expenses.

SG&A expenses were \$34.7 million in the second quarter 2014 compared to \$33.3 million in the second quarter 2013. SG&A expenses were \$65.9 million in the first half of 2014, a slight decrease from the expense total of \$66.1 million in the first half of 2013. SG&A expenses were 12% of sales in the first half of 2014 and 11% of sales in the first half of 2013. SG&A expenses were 22% of value-added sales in both the first half of 2014 and the first half of 2013.

Retirement costs under the domestic defined benefit pension plan and the domestic retiree medical plan were \$1.6 million lower in the second quarter 2014 than the second quarter 2013 and \$3.2 million in the first half of 2014 than the first half of 2013 due to changes in the discount rates, actuarial differences, changes to the plan design and other factors. The lower expense was recorded mainly in SG&A expenses and cost of sales.

The incentive compensation expense under cash-based plans was \$2.6 million higher in the second quarter 2014 than the second quarter 2013 and \$2.6 million higher in the first half of 2014 than the first half of 2013. The increase was caused by differences in the projected level of annual profit relative to the plans' targets in each year and other factors.

Stock-based compensation expense totaled \$1.6 million in the second quarter 2014 and \$1.5 million in the second quarter 2013. Stock-based compensation expense in the first half of 2014 was \$3.0 million compared to \$2.7 million in the first half of 2013. Movements in stock-based compensation between periods may be caused by differences in the number of unvested grants, the fair value of the grants and other items.

Selling and marketing expenses increased in the second quarter and first half of 2014 in portions of our business in order to support our market development plans.

Various corporate costs were higher in the first half 2014 than the first half of 2013, including legal (partially as a result of the costs associated with the precious metal insurance claim) and health and safety (driven by a large one-time study).

Research and development (R&D) expenses were \$3.4 million in the second quarter 2014 compared to \$3.2 million in the second quarter 2013 and \$6.2 million in the first half of 2014 compared to \$6.7 million in the first half of 2013. R&D expenses were approximately 1% of sales in the first half of 2014 and 2013. The change in expense levels between periods was primarily due to differences in project work, the timing of activities and changes in manpower.

Other-net was income of \$2.9 million in the second quarter 2014 and \$2.5 million in the first half of 2014. In 2013, other-net was an expense of \$3.0 million in the second quarter and of \$5.4 million in the first half of the year. The main causes for the change between periods were a favorable insurance settlement in the second quarter 2014 and a gain on the sale of used equipment in the first quarter 2014 offset in part by higher currency exchange and translation losses in both quarters of 2014.

During the second quarter 2014, we reached a favorable agreement with our insurance provider that resulted in the payment of \$6.8 million to us in satisfaction of our theft claim associated with the precious metal inventory loss at our Albuquerque, New Mexico facility in the fourth quarter 2012. The agreement with the insurance carrier also allows us to retain any future recoveries from the responsible parties.

As part of the plant consolidation program, we sold used equipment with little future value to us for a \$2.6 million gain in the first quarter 2014.

These benefits were partially offset by higher net foreign currency exchange and translation losses of \$0.8 million in the second quarter 2014 and \$1.6 million in the first half of 2014 than the respective periods of 2013 as a result of the movement in the value of the U.S. dollar versus certain other currencies and their impact on transactions and balances and in relation to the strike prices in currency hedge contracts.

Other-net expense also includes metal consignment fees, amortization expense, bad debt expense, cash discounts and other items. See Note G to the Consolidated Financial Statements.

Operating profit was \$14.6 million in the second quarter 2014, an improvement of \$8.0 million over the operating profit of \$6.6 million in the second quarter 2013. The improvement in profit was due to the increased margin (which resulted from the higher value-added sales and other factors), savings from the plant consolidation program, lower retirement plan costs, the favorable insurance settlement and other factors, offset in part by an increase in incentive compensation, currency exchange and

translation losses and other items. Operating profit was 5% of sales in the second quarter 2014 and 2% of sales in the second quarter 2013 and 9% of value-added sales in the first half of 2014 and 4% of value-added sales in the first half of 2013.

Operating profit of \$25.6 million (5% of sales) in the first half of 2014 was 59% higher than operating profit of \$16.1 million (3% of sales) in the first half of 2013. Operating profit was 8% of value-added sales in the first half of 2014 and 5% of value-added sales in the first half of 2013.

Interest expense - net was \$0.7 million in the second quarter 2014, down slightly from the expense of \$0.8 million in the second quarter 2013. Interest expense-net was \$1.4 million in the first half of 2014 compared to \$1.6 million in the first half of 2013. The lower net interest expense was mainly due to a decrease in the average outstanding debt level.

Income before income taxes and **income tax expense** for the second quarter and first half of 2014 and 2013 were as follows:

(Dollars in millions)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Income before income taxes	\$ 13.9	\$ 5.7	\$ 24.3	\$ 14.4
Income tax expense	3.9	1.6	7.0	3.5
Effective tax rate	28.2%	27.7%	28.7%	24.2%

The effects of percentage depletion, the production deduction, foreign source income and credits, state and local taxes and other items were major factors for the difference between the effective and statutory rates in the second quarter and first half of 2014 and 2013.

The tax expense for the first half of 2013 included a net discrete tax benefit of \$0.6 million recorded in the first quarter 2013 that primarily represented the estimated full value of the research and experimentation credit for 2012 as the U.S. Congress did not extend the credit for 2012 and 2013 until January 2013. Congress has not extended the credit for 2014 and, therefore, no benefit has been recorded in the current year.

Net income was \$10.0 million (or \$0.47 per share, diluted) in the second quarter 2014 compared to \$4.2 million (or \$0.20 per share, diluted) in the second quarter 2013. Net income was \$17.3 million (or \$0.82 per share, diluted) in the first half of 2014 versus \$10.9 million (or \$0.52 per share, diluted) in the first half of 2013.

Segment Results

Results by segment are depicted in Note E to the Consolidated Financial Statements. The All Other column in the segment reporting includes our parent company expenses, other corporate charges and the operating results of Materion Services Inc., a wholly owned subsidiary that provides administrative and financial oversight services to our other businesses on a cost-plus basis.

The operating loss within All Other in the second quarter 2014 was unchanged from the second quarter 2013 and \$0.2 million higher in the first half of 2014 than the first half of 2013. Incurred costs, including incentive compensation, at corporate were higher in the first half of 2014, but the increase was largely offset by an increase in charges out to the business units.

Advanced Material Technologies

(Millions)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Sales	\$ 179.1	\$ 196.0	\$ 342.3	\$ 389.9
Value-added sales	69.9	65.2	135.5	133.9
Operating profit	11.5	(2.3)	19.1	1.1

Advanced Material Technologies manufactures precious, non-precious and specialty metal products, including vapor deposition targets, frame lid assemblies, clad and precious metal preforms, high temperature braze materials, ultra-fine wire, advanced chemicals, optics, performance coatings and microelectronic packages. These products are used in wireless, semiconductor, photonic, hybrid and other microelectronic applications within the consumer electronics and telecommunications infrastructure markets. Other key markets for these products include medical, defense and science, energy and industrial components. Advanced Material Technologies also has metal cleaning operations and in-house refineries that allow for the reclaim

of precious metals from internally generated or customers' scrap. This segment has domestic facilities in New York, Connecticut, Wisconsin, New Mexico, Massachusetts and California and international facilities in Asia and Europe.

Sales from Advanced Material Technologies were \$179.1 million in the second quarter 2014, a decline of \$16.9 million, or 9%, from sales of \$196.0 million in the second quarter 2013. Sales of \$342.3 million in the first half of 2014 were \$47.6 million, or 12%, lower than sales of \$389.9 million in the first half of 2013. Lower pass-through metal prices accounted for an estimated \$6.6 million of the decline in sales in the second quarter 2014 from the second quarter 2013 and \$31.0 million of the decline in sales in the first half of 2014 from the first half of 2013. The balance of the sales decline was due to differences in volumes shipped and the quantity of customer-supplied metal.

Value-added sales were \$69.9 million in the second quarter 2014, a 7% increase from value-added sales of \$65.2 million in the second quarter 2013. Value-added sales of \$135.5 million in the first half of 2014 were \$1.6 million, or 1%, higher than value-added sales of \$133.9 million in the first half of 2013.

Consumer electronics is Advanced Material Technologies' largest market, accounting for approximately 40% of the segment's value-added sales in the first half of 2014. Value-added sales to this market grew 16% in the second quarter 2014 over the second quarter 2013 and 11% in the first half of 2014 over the first half of 2013. The growth was primarily due to a combination of higher shipments for semiconductor, LED, gaming systems and other applications.

Value-added sales to the medical market, primarily precious metal-coated precision polymer films, improved 18% in the second quarter 2014 over the second quarter 2013. Value-added sales to this market were 1% higher in the first half of 2014 than the first half of 2013. The comparison between value-added sales in the second quarter 2014 and the second quarter 2013 is affected by manufacturing issues at a key vendor that caused a temporary shipment delay in the second quarter 2013. Medical market value-added sales in the second quarter 2013 were the lowest quarter of that year. Value-added sales to the medical market in the second quarter 2014 also improved 9% over the first quarter 2014. The medical market is this segment's second largest market, accounting for approximately 19% of value-added sales in the second quarter 2014.

Value-added sales from refining and shield kit cleaning operations improved 25% in the second quarter 2014 from the second quarter 2013 and 6% in the first half of 2014 from the first half of 2013. The level of value-added sales from these operations is partially a function of the ounces in the supply chain available to be reclaimed, the purity levels of those ounces and the current precious metal prices.

Defense value-added sales declined approximately 33% in the second quarter 2014 and 36% in the first half of 2014 from the comparable periods in 2013. The decline was largely due to lower shipments of optics as a result of government spending cut-backs. Value-added sales to the energy and telecommunications infrastructure markets also declined slightly in the second quarter and first half of 2014 from the respective periods in 2013. Automotive electronics value-added sales in the second quarter 2014 were unchanged from the second quarter 2013 but lower in the first half of 2014 than the first half of 2013 due to weaker sales of optics in the first quarter 2014.

Gross margin generated by Advanced Material Technologies was \$25.5 million, or 14% of sales in the second quarter 2014, compared to \$19.2 million, or 10% of sales, in the second quarter 2013. Gross margin grew from \$44.2 million, or 11% of sales, in the first half of 2013 to \$49.0 million, or 14% of sales in the first half of 2014. Gross margin was 37% of value-added sales in the second quarter 2014 compared 30% of value-added sales in the second quarter 2013. Gross margin was 36% of value-added sales in the first half of 2014, an improvement from 33% of value-added sales in the first half of 2013.

The increased gross margin in the second quarter and first half of 2014 compared to the respective periods of 2013 was partially due to process improvements that resulted in higher yields and manufacturing efficiencies in the precious metal refining operations at the Buffalo, New York facility.

Gross margin also grew in the second quarter 2014 over the second quarter 2013 as a result of the higher value-added sales. The higher value-added sales had a minor impact on gross margin in the first half of 2014. The change in product mix was favorable in both the second quarter and first half of 2014 compared to the same periods in 2013.

The previously discussed plant consolidation savings favorably impacted this segment's gross margins and total expenses in the second quarter and first half of 2014.

Total SG&A, R&D and other-net expenses were \$14.3 million (8% of sales) in the second quarter 2014 compared to \$21.5 million (11% of sales) in the second quarter 2013 and \$29.9 million (9% of sales) in the first half of 2014 compared to \$43.1

million (11% of sales) in the first half of 2013. Expenses were 22% of value-added sales in the first half of 2014 and 31% of value-added sales in the first half of 2013.

The previously discussed \$6.8 million insurance settlement had a favorable impact on this segment's net expenses in the second quarter and first half of 2014. The total expense in the first half of 2014 also included the previously discussed benefit of the \$2.6 million gain on the sale of equipment as part of the plant consolidation program.

Offsetting a portion of the impact of these one-time benefits was an increase in incentive compensation expense in the second quarter and first half of 2014 over the respective periods of 2013 due to the improved profitability. Corporate charges also were higher in the second quarter and first half of 2014 than the comparable periods in the prior year. The metal consignment fee was slightly higher in the second quarter 2014 than the second quarter 2013 after being flat in the first quarter 2014 with the first quarter 2013.

Advanced Material Technologies generated an operating profit of \$11.5 million in the second quarter 2014, an improvement of \$13.8 million over the operating loss of \$2.3 million in the second quarter 2013. Operating profit was \$19.1 million (6% of sales) in the first half of 2014 compared to \$1.1 million (less than 1% of sales) in the first half of 2013. Operating profit was 14% of value-added sales in the first half of 2014 and 1% of value-added sales in the first half of 2013.

Performance Alloys

(Millions)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Sales	\$ 76.7	\$ 74.3	\$ 143.4	\$ 148.9
Value-added sales	63.5	58.8	118.1	118.1
Operating profit	5.2	6.9	8.8	14.1

Performance Alloys manufactures and sells three main product families:

Strip products, the largest of the product families, include thin gauge precision strip and thin diameter rod and wire. These copper and nickel alloys provide a combination of high conductivity, high reliability and formability for use as connectors, contacts, switches, relays and shielding. Major markets for strip products include consumer electronics, telecommunications infrastructure, automotive electronics, appliance and medical;

Bulk products are copper and nickel-based alloys manufactured in plate, rod, bar, tube and other customized forms that, depending upon the application, may provide superior strength, corrosion or wear resistance, thermal conductivity or lubricity. Applications for bulk products include oil and gas drilling components, bearings, bushings, welding rods, plastic mold tooling and undersea telecommunications housing equipment. Major markets for bulk products include industrial components, commercial aerospace, energy and telecommunications infrastructure; and,

Beryllium hydroxide is produced at our milling operations in Utah from our bertrandite mine and purchased beryl ore. The hydroxide is used primarily as a raw material input for strip and bulk products and, to a lesser extent, by the Beryllium and Composites segment. Sales of hydroxide are also made on a limited basis.

Strip and bulk products are manufactured at facilities in Ohio and Pennsylvania and are distributed internationally through a network of company-owned service centers and outside distributors and agents.

Sales by Performance Alloys of \$76.7 million in the second quarter 2014 were 3% higher than sales of \$74.3 million in the second quarter 2013, while sales of \$143.4 million in the first half of 2014 were 4% lower than sales of \$148.9 in the first half of 2013. Copper prices on average were lower in the second quarter and first half of 2014 than the comparable periods of 2013 and resulted in an estimated \$1.5 million reduction in sales in the second quarter 2014 and \$2.7 million reduction in the first half of 2014.

The sales growth in the second quarter 2014 was largely due to higher sales of beryllium hydroxide. Sales of beryllium hydroxide totaled \$3.8 million in the second quarter 2014 and \$6.3 million in the first half of 2014. Beryllium hydroxide sales totaled \$5.7 million in the first half of 2013, all of which occurred in the first quarter of that year. The difference in sales between the second quarter and first half of 2014 with the respective periods of 2013 was mainly due to timing, as the shipping schedule changed to a quarterly basis in 2014 from a semi-annual basis in previous years.

Total volumes of strip and bulk products shipped in the second quarter 2014 were 3% lower than the second quarter 2013. Volumes improved in the second quarter 2014 over the first quarter 2014, growing 13%. Total strip and bulk volumes shipped were 6% lower in the first half of 2014 than the first half of 2013, although shipments of ToughMet® products, our non-beryllium-containing alloy manufactured in strip and bulk forms, improved 13% in the first half of 2014 over the first half of 2013.

Performance Alloys' value-added sales were \$63.5 million in the second quarter 2014 compared to \$58.8 million in the second quarter 2013. Value-added sales in the first half of 2014 of \$118.1 million were unchanged from the value-added sales in the first half of 2013.

Sales to the consumer electronics market, Performance Alloys' largest market, grew 29% in the second quarter 2014 and 27% in the first half of 2014 over the respective periods of 2013. The growth was partially due to increased shipments for camera stabilization applications in tablets.

Value-added sales to the industrial components market improved 8% in the second quarter 2014 over the second quarter 2013, primarily due to increased shipments for foundry and fire sprinkler applications. Value-added sales to this market were 8% lower in the first half of 2014 than the first half of 2013 partially as a result of the lower mining activity in the first quarter 2014. Value-added sales to the energy market, primarily bulk products for oil and gas well applications, increased in the second quarter and first half of 2014 over the same periods in 2013 due to new well head applications and other factors.

Value-added sales to the automotive electronics market, primarily strip products, were 26% lower in the second quarter 2014 than the second quarter 2013 and 17% lower in the first half of 2014 than the first half of 2013 as a result of excess inventory in the supply chain and other factors. Value-added sales to the telecommunications infrastructure market also were lower in each of the first two quarters of 2014 than the first two quarters of 2013 as softer value-added sales of undersea repeater housing components due to project funding delays more than offset the growth in connector value-added sales for 4G applications in Asia. Value-added sales to the telecommunications infrastructure market improved in the second quarter 2014 over the first quarter 2014.

In the fourth quarter 2013, we announced a price increase effective January 1, 2014. This announcement may have affected customers' purchasing patterns in the fourth quarter 2013 and first quarter 2014.

The gross margin on Performance Alloys' sales totaled \$18.6 million in the second quarter 2014 compared to \$17.8 million in the second quarter 2013. Gross margin was 24% of sales in both quarters and 29% of value-added sales in the second quarter 2014 compared to 30% of value-added sales in the second quarter 2013. Gross margin was \$34.1 million, or 24% sales, in the first half of 2014 and \$35.1 million, also 24% of sales, in the first half of 2013. Gross margin was 29% of value-added sales in the first half of 2014 and 30% of value-added sales in the first half of 2013.

The net volume impact from the higher hydroxide value-added sales offset in part by the lower strip and bulk value-added sales provided a small benefit to gross margin in the second quarter 2014 as compared to the second quarter 2013. The change in product mix was unfavorable in the second quarter and first half of 2014 relative to the comparable periods in 2013. Operating costs were higher at the Elmore facility in the second quarter 2014 than the second quarter 2013 due to differences in plant performance. Manufacturing overhead costs were lower in the second quarter and first half of 2014 than the same periods in 2013. The severe winter weather in the first quarter 2014 unfavorably impacted plant operations and reduced gross margins in the first half of 2014.

Total SG&A, R&D and other-net expenses were \$13.4 million (17% of sales) in the second quarter 2014 compared to \$10.9 million (15% of sales) in the second quarter 2013. These expenses totaled \$25.3 million (18% of sales) in the first half of 2014 and \$21.0 million (14% of sales) in the first half of 2013. They also were 21% of value-added sales in the first half of 2014 and 18% of value-added sales in the first half of 2013.

The differences in foreign currency exchange and translation gains and losses was a major cause in the increase in expenses in the second quarter and first half of 2014 than the same periods of 2013. R&D expenses were also higher in the second quarter and first half of 2014, due to an increase in project work, additional manpower costs and patent development costs. Selling and marketing expenses increased in the first half of 2014 due to additions to manpower. Corporate charges were also higher in each of the first two quarters of 2014 than the first two quarters of 2013.

Performance Alloys generated an operating profit of \$5.2 million in the second quarter 2014 compared to \$6.9 million in the second quarter 2013. Operating profit was \$8.8 million in the first half of 2014, down \$5.3 million from the operating profit of \$14.1 million in the first half of 2013. Operating profit was 6% of sales in the first half 2014 and the 9% of sales in the first

half of 2013. Operating profit was also 7% of value-added sales in the first half of 2014 and 12% of value-added sales in the first half of 2013.

Beryllium and Composites

(Millions)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Sales	\$ 16.6	\$ 16.2	\$ 32.1	\$ 28.5
Operating profit (loss)	(1.8)	0.8	(0.7)	(0.5)

Beryllium and Composites manufactures beryllium-based metals and metal matrix composites in rod, sheet, foil and a variety of customized forms. These materials are used in applications that require high stiffness and/or low density and they tend to be premium-priced due to their unique combination of properties. The acquisition of Aerospace Metal Composites Limited (AMC) in the first quarter 2012 provides a complementary family of non-beryllium-based alloys and composites. This segment also manufactures beryllia ceramic products. Defense is the largest market for Beryllium and Composites, while other markets served include industrial components, medical, science, commercial aerospace, energy and telecommunications infrastructure. Products are also sold for acoustics, optical scanning and performance automotive applications. Manufacturing facilities for Beryllium and Composites are located in Ohio, California, Arizona and England.

Sales by Beryllium and Composites of \$16.6 million in the second quarter 2014 were \$0.4 million, or 3%, higher than sales of \$16.2 million in the second quarter of 2013, while sales of \$32.1 million in the first half of 2014 were \$3.6 million, or 13%, higher than sales of \$28.5 million in the second half of 2013. Beryllium and Composites does not directly pass through changes in the costs of its materials sold, so under our definition, sales and value-added sales for this segment are the same.

Sales to the medical market grew 15% in the second quarter 2014 and 24% in the first half of 2014 over the respective prior year periods. The growth was due to traditional x-ray window applications and emerging nuclear medical applications. Sequentially, medical market sales increased significantly in the second quarter 2014 over the first quarter 2014.

Sales to the science market were slightly higher in the second quarter 2014 than the second quarter 2013 and \$2.2 million higher in the first half of 2014 than the first half of 2013. The growth in the first half of 2014 was due to a sale of a beam pipe for the Large Hadron Collider in the first quarter 2014. We produce a beam pipe for this application approximately once every twelve to eighteen months.

Sales to the telecommunications infrastructure market, a smaller market for Beryllium and Composites, grew 50% in both the second quarter and first half of 2014 over the comparable periods in 2013 largely due to improved demand for ceramic products.

The growth in sales to these markets in the second quarter 2014 was partially offset by lower defense market sales. Sales to the defense market, which accounted for 28% of total segment sales in the second quarter 2014, declined 16% in the second quarter 2014 from the second quarter 2013 and 11% in the first half of 2014 from the first half of 2013. A portion of the lower sales was due to planned shipments in the second quarter 2014 that were pushed out to the third quarter 2014 due to manufacturing delays and other issues.

Sales to the industrial components market were down slightly in the second quarter 2014 from the second quarter 2013, but slightly higher in the first half of 2014 than the first half of 2013.

The gross margin on Beryllium and Composites' sales was \$2.7 million (16% of sales) in the second quarter 2014 and \$4.5 million (28% of sales) in the second quarter 2013. Gross margin in the first half of 2014 was \$7.6 million (24% of sales) compared to \$7.3 million (26% of sales) in the first half of 2013. While sales volumes were higher in the second quarter of 2014 than the second quarter of 2013, the favorable impact of the increased volume on gross margin was more than offset by an unfavorable change in product mix, higher input material costs and an increase in operating and overhead costs.

Beryllium and Composites operates in a make-to-order environment and sells a variety of specialized products that are typically unique to a given customer. The product mix therefore can change from period to period and have a significant impact on gross margins. The product mix in the second quarter 2014 was weaker than the product mix in the second quarter 2013. The change in product mix was favorable in the first half of 2014 as compared to the first half of 2013 due to a strong product mix in the first quarter 2014, driven by various science and defense shipments.

In the second quarter and first half of 2013, we were able to reclaim and utilize recycled materials that reduced input material costs and improved gross margins in those periods. Due to the limited availability of recycled materials to be reclaimed and other factors, the benefit from utilizing this material flow was minor and our average material input cost was higher in the second quarter and first half of 2014 than in the same periods of 2013.

We also are utilizing more of the output from the beryllium pebble facility at the Elmore, Ohio plant site to satisfy our internal production demands in 2014. The operating cost of the pebble plant is currently higher than the purchased beryllium cost utilized in prior periods. The pebble plant is designed to provide a consistent supply of beryllium as the availability of beryllium from external sources in future periods may be limited. Improvements have been made in the pebble plant, but its operating costs remained high during the first half of 2014. As efficiencies and improvements to the process are made and volumes increase further, the cost per pound of the material produced by the plant will decline and become more competitive with the historical purchased price of beryllium.

Manufacturing overhead costs were higher in the second quarter and first half of 2014 than the respective periods of 2013 partially due to higher activity levels. Overhead costs were higher in the first half of 2014 partially as a result of the impact of the severe weather in the first quarter 2014.

SG&A, R&D and other-net expenses for Beryllium and Composites were \$4.5 million in the second quarter 2014, an increase of \$0.8 million from the second quarter 2013. These expenses totaled \$8.2 million (26% of sales) in the first half of 2014 compared to \$7.7 million (27% of sales) in the first half of 2013. R&D expenses were higher in the second quarter 2014 than the second quarter 2013 due to an increase in project work, but were unchanged in the first half of 2014 from the first half of 2013. Corporate charges were higher in both the second quarter and first half of 2014 than the same periods in 2013. Selling expenses, primarily manpower-related costs, were also higher in the first half of 2014 than the first half of 2013.

Beryllium and Composites had an operating loss of \$1.8 million in the second quarter 2014 compared to an operating profit of \$0.8 million in the second quarter 2013. In the first half of 2014, Beryllium and Composites lost \$0.7 million compared to an operating loss of \$0.5 million in the first half of 2013.

Technical Materials

(Millions)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Sales	\$ 15.5	\$ 19.6	\$ 29.1	\$ 38.0
Value-added sales	9.6	12.3	18.8	23.3
Operating profit	1.0	2.4	1.1	3.8

Technical Materials' capabilities include clad inlay and overlay metals, precious and base metal electroplated systems, electron beam welded systems, contour profiled systems and solder-coated metal systems. These specialty strip metal products provide a variety of thermal, electrical or mechanical properties from a surface area or particular section of the material. Our cladding and plating capabilities allow for a precious metal or other base metal to be applied in continuous strip form only where it is needed, reducing the material cost to the customer as well as providing design flexibility and performance. Major applications for these products include connectors, contacts, power lead frames and semiconductors, while the largest markets are automotive electronics and consumer electronics. The energy and medical markets are smaller but offer further growth opportunities. Technical Materials' products are manufactured at our Rhode Island facility.

Sales from Technical Materials of \$15.5 million in the second quarter 2014 were 21% lower than sales of \$19.6 million in the second quarter 2013. Sales in the first half of 2014 of \$29.1 million were 24% lower than sales of \$38.0 million in the first half of 2013. The decline in sales was primarily in inlay and selective plated products.

Value-added sales of \$9.6 million in the second quarter 2014 were 22% lower than value-added sales of \$12.3 million in the second quarter 2013, while value-added sales of \$18.8 million in the first half of 2014 were 20% below value-added sales of \$23.3 million in the first half of 2013.

Value-added sales to the automotive electronics market declined 27% in the second quarter 2014 from the second quarter 2013 and 25% in the first half of 2014 from the first half of 2013. The decline was largely due to softer market conditions and key customers working down existing inventories.

Value-added sales to the consumer electronics market were 41% lower in the second quarter 2014 than the second quarter 2013 and 44% lower in the first half of 2014 than the first half of 2013. The decline was partially due to the phase-out of a disk drive application due to changes in technologies in the first half of 2013. Consumer electronics value-added sales in the first half of 2014 were only 4% lower than in the second half of 2013.

Value-added sales to the energy market were relatively flat in the second quarter 2014 compared to the second quarter 2013 but were up 38% in the first half of 2014 over the first half of 2013 primarily due to new product development efforts. Value-added sales to this segment's other smaller markets also grew in the first half of 2014 over the first half of 2013.

New products accounted for approximately 20% of Technical Materials' value-added sales in the second quarter 2014.

The gross margin on Technical Materials' sales was \$3.1 million, or 20% of sales, in the second quarter 2014 compared to \$4.6 million, or 24% of sales, in the second quarter 2013. Gross margin for this segment was \$5.1 million, or 18% of sales, in the first half of 2014 and \$8.2 million, or 22% of sales, in the first half of 2013. Gross margin was also 27% of value-added sales in the first half of 2014 and 35% of value-added sales in the first half of 2013.

The lower gross margin in the second quarter 2014 and first half of 2014 compared to the respective periods of the prior year was largely due to the lower value-added sales. The change in product mix was also unfavorable in the second quarter and first half of 2014 and contributed to the lower gross margin. The impact of these items was partially offset by lower manufacturing overhead costs in the second quarter and first half of 2014 compared to the same periods of 2013 as a result of the reduced activity levels and cost control efforts.

SG&A, R&D and other-net expenses totaled \$2.1 million in the second quarter 2014, down slightly from the total expenses of \$2.2 million in the second quarter 2013. These expenses totaled \$4.0 million (14% of sales) in the first half of 2014 compared to \$4.4 million (12% of sales) in the first half of 2013. Expenses were 21% of value-added sales in the first half of 2014 and 19% of value-added sales in the first half of 2013. The lower expense dollars in the second quarter and first half of 2014 resulted from cost control efforts enacted in response to the lower sales volumes and reduced incentive compensation expense due to the change in profitability.

Technical Materials generated an operating profit of \$1.0 million in the second quarter 2014 and \$2.4 million in the second quarter 2013. Operating profit of \$1.1 million in the first half of 2014 was \$2.7 million lower than the operating profit of \$3.8 million in the first half of 2013. Operating profit was 4% of sales and 6% of value-added sales in the first half of 2014 and 10% of sales and 16% of value-added sales in the first half of 2013.

Value-Added Sales - Reconciliation of Non-GAAP Measure

A reconciliation of sales to value-added sales, a non-GAAP measure, for each reportable segment and for the Company in total for the second quarter and first half of 2014 and 2013 is as follows:

(Millions)	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
Sales				
Advanced Material Technologies	\$ 179.1	\$ 196.0	\$ 342.3	\$ 389.9
Performance Alloys	76.8	74.3	143.4	148.9
Beryllium and Composites	16.6	16.2	32.1	28.5
Technical Materials	15.5	19.6	29.1	38.0
All Other	—	—	—	—
Total	<u>\$ 288.0</u>	<u>\$ 306.1</u>	<u>\$ 546.9</u>	<u>\$ 605.3</u>
Less: Pass-through Metal Cost				
Advanced Material Technologies	\$ 109.2	\$ 130.8	\$ 206.8	\$ 256.0
Performance Alloys	13.3	15.5	25.3	30.8
Beryllium and Composites	—	—	—	—
Technical Materials	5.9	7.3	10.3	14.7
All Other	—	—	—	—
Total	<u>\$ 128.4</u>	<u>\$ 153.6</u>	<u>\$ 242.4</u>	<u>\$ 301.5</u>
Value-added Sales				
Advanced Material Technologies	\$ 69.9	\$ 65.2	\$ 135.5	\$ 133.9
Performance Alloys	63.5	58.8	118.1	118.1
Beryllium and Composites	16.6	16.2	32.1	28.5
Technical Materials	9.6	12.3	18.8	23.3
All Other	—	—	—	—
Total	<u>\$ 159.6</u>	<u>\$ 152.5</u>	<u>\$ 304.5</u>	<u>\$ 303.8</u>

The cost of gold, silver, platinum, palladium and copper can be quite volatile. Our pricing policy is to directly pass the cost of these metals on to the customer in order to mitigate the impact of metal price volatility on our results from operations. Trends and comparisons of sales are affected by movements in the market prices of these metals, but changes in sales due to metal price movements may not have a proportionate impact on our profitability.

Internally, management reviews sales on a value-added basis. Value-added sales is a non-GAAP measure that deducts the value of the pass-through metals sold from sales. Value-added sales allows management to assess the impact of differences in sales between periods, segments or markets and analyze the resulting margins and profitability without the distortion of the movements in the pass-through metal values. The dollar amount of gross margin and operating profit is not affected by the value-added sales calculation. We sell other metals and materials that are not considered direct pass-throughs and their costs are not deducted from sales when calculating value-added sales.

Our sales are also affected by changes in the use of customer-supplied metal. When we manufacture a precious metal product, the customer may purchase metal from us or may elect to provide its own metal, in which case we process the metal on a toll basis and the metal value does not flow through sales or cost of sales. In either case, we generally earn our margin based upon our fabrication efforts. The relationship of that margin to sales can change depending upon whether the product was made from our metal or the customer's. The use of value-added sales removes the potential distortion in the comparison of sales caused by changes in the level of customer-supplied metal.

By presenting information on sales and value-added sales, it is our intention to allow users of our financial statements to review our sales with and without the impact of the pass-through metals.

LEGAL

Standards for exposure to beryllium are under review by the United States Occupational Safety and Health Administration (OSHA) and by other governmental and private standard-setting organizations. One result of these reviews will likely be more stringent worker safety standards. Some organizations, such as the California Occupational Health and Safety Administration and the American Conference of Governmental Industrial Hygienists, have adopted standards that are more stringent than the current standards of OSHA. The development, proposal or adoption of more stringent standards may affect the buying decisions by the users of beryllium-containing products. If the standards are made more stringent and/or our customers or other downstream users decide to reduce their use of beryllium-containing products, our results of operations, liquidity and financial condition could be materially adversely affected. The impact of this potential adverse effect would depend on the nature and extent of the changes to the standards, the cost and ability to meet the new standards, the extent of any reduction in customer use and other factors. The magnitude of this potential adverse effect cannot be estimated.

There were two chronic beryllium disease (CBD) cases outstanding against us as of the end of the second quarter 2014. Both cases were filed prior to 2014. A loss reserve of \$0.2 million was recorded on our Consolidated Balance Sheet as of the end of the second quarter 2014 for these two cases. No settlement payments were made and no other CBD cases were filed or dismissed during the first half of 2014.

FINANCIAL POSITION

Net cash provided from used in operations was \$1.5 million in the first half of 2014, as the growth in various working capital items, including accounts receivable and inventory, and a decline in long-term liabilities, more than offset net income, the effects of depreciation, amortization and stock compensation expense.

Cash was \$18.1 million as of the end of the second quarter 2014 compared to \$22.8 million as of year-end 2013.

Accounts receivable of \$121.8 million as of the end of the second quarter 2014 were \$8.8 million, or 8% higher, than the receivable balance of \$113.0 million as of year-end 2013. This increase was primarily due to a slow down in the average collection period. The days sales outstanding (DSO), a measure of the average collection period, was approximately 38 days as of the end of the second quarter 2014 compared to approximately 36 days as of the end of 2013. The DSO as of the end of the second quarter 2014 was an improvement over the DSO as of the end of the first quarter 2014. We maintain credit policies and practices that include ongoing evaluation of the credit position of our current and potential customers and we aggressively manage our exposures and the collectability of our receivables. The bad debt expense in the first half of 2014 was immaterial.

Inventories totaled \$254.8 million as of the end of the second quarter 2014, an increase of \$22.0 million, or 9%, since year-end 2013. The inventory turnover ratio, a measure of how effectively inventory is utilized, slowed down slightly in the second quarter 2014 from year-end 2013.

A portion of the inventory increase was in beryllium hydroxide at our Utah operations as a result of the cyclical nature of our mining activities and the planned timing of extracting ore and the deployment of our mining resources.

Inventory also increased as a result of building buffers, the purchase of raw material input to support sales in future periods with long production times and other factors, primarily within the Performance Alloy and Beryllium and Composites supply chains.

We use the last-in, first-out (LIFO) method for valuing a large portion of our domestic inventories. By so doing, the most recent cost of various raw materials, including gold, copper and nickel, is charged to cost of sales in the current period. The older, and often lower, costs are used to value the inventory on hand. Therefore, current changes in the cost of raw materials subject to the LIFO valuation method have only a minimal impact on changes in the inventory carrying value.

Capital expenditures for the first half of 2014 and 2013 are summarized as follows:

(Millions)	First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013
Capital expenditures	\$ 12.9	\$ 13.0
Mine development	0.3	4.4
Total	\$ 13.2	\$ 17.4

The majority of the capital spending in the first half of 2014 was on small discrete projects. Major projects included an upgrade to the strip rolling equipment at the Reading, Pennsylvania facility and a new chamber for optical filter processing at the Westford, Massachusetts facility. Capital spending also included a number of infrastructure and support projects, including R&D equipment, power supplies, security systems and information technology projects. Additional capital spending on the beryllium facility at the Elmore plant site, which was initially constructed as part of a multi-year \$104.9 million Title III contract with the U.S. Department of Defense, was minor in the first half of 2014.

Intangible assets were \$21.5 million at the end of the second quarter 2014, a decline of \$2.7 million since the end of 2013 due to the current period amortization.

Other liabilities and accrued items were \$47.8 million at the end of the second quarter 2014, a decrease of \$7.0 million from year-end 2013. The payment of the 2013 annual incentive compensation to employees in the first quarter 2014 was the main cause of the decline. Various accruals for utilities, professional services, and other items changed due to business levels, seasonal factors or other causes.

Unearned revenue, which is a liability representing products invoiced to customers but not yet shipped, was \$2.1 million at the end of the second quarter 2014 compared to \$0.5 million as of December 31, 2013. Revenue and the associated margin will be recognized for these transactions when the goods ship, title passes and all other revenue recognition criteria are met. Invoicing in advance of the shipment, which is only done in certain circumstances, allows us to collect cash sooner than we would otherwise.

Unearned income was \$54.1 million at the end of the second quarter 2014 compared to \$56.5 million as of year-end 2013. This balance represents the unamortized reimbursements from the government for equipment purchases for the new beryllium facility made under the Title III program. The reduction to unearned income in the first half of 2014 was recorded against cost of sales on the Consolidated Statements of Income and offset the depreciation expense recorded on the underlying equipment. Depreciation and amortization expense on the Consolidated Statement of Cash Flows is depicted net of the corresponding reduction in unearned income. See Note I to the Consolidated Financial Statements.

The **retirement and post-employment benefits** liability totaled \$56.9 million at the end of the first half of 2014 compared to \$80.3 million as of December 31, 2013. This balance represents the liability under our domestic defined benefit pension plan, the retiree medical plan and other retirement plans and post-employment obligations.

The liability for the retiree medical plan was reduced by \$14.0 million in the first quarter 2014 as a result of a change in the benefits offered to participants in the plan. See Liquidity discussion.

The liability for the domestic defined benefit pension plan declined \$9.3 million in the first half of 2014 as a result of contributions to the plan totaling \$11.8 million and an adjustment to other comprehensive income of \$2.2 million offset in part by the first half expense of \$4.7 million.

The retirement and post-employment benefits liability was also affected by differences between the payments made under other plans, the quarterly expense for all of these plans and other factors.

Debt totaled \$80.3 million as of the end of the second quarter 2014, an increase of \$15.5 million over the year-end 2013 balance of \$64.8 million. The increase in debt along with a portion of the excess cash was used to fund capital expenditures, the buy back of shares, the dividends paid to shareholders and the net growth in working capital in the first half of 2014. Debt declined \$12.6 million in the second quarter 2014 from the \$92.9 million total debt balance as of the end of the first quarter 2014.

Outstanding short-term debt was \$33.4 million as of the end of the second quarter 2014, while long-term debt totaled \$46.9 million.

We were in compliance with all of our debt covenants as of the end of the second quarter 2014.

Shareholders' equity was \$487.9 million as of the end of the first half of 2014 compared to \$463.3 million as of year-end 2013. The main cause of the increase in equity in the first half of 2014 was comprehensive income of \$28.0 million. This increase was partially offset by the payment of dividends and the repurchase of common stock. Equity was also affected by stock compensation expense, the exercise of stock options and other factors.

Prior Year Financial Position

Net cash provided from operations was \$18.1 million in the first half of 2013, as net income, the effects of depreciation, amortization and stock compensation expense and other items offset the \$9.2 million decrease in accounts payable and accrued items (which was partially due to the payment of the 2012 incentive compensation to employees during the first quarter 2013).

The accounts receivable balance of \$129.8 million at the end of the second quarter 2013 was 3% higher than the year-end 2012 balance due to an increase in sales and a slightly slower collection period. Inventories totaled \$207.6 million at the end of the second quarter 2013, an increase of \$1.5 million from year-end 2012. The increase was partially due to the purchase of beryllium feed stock to augment the production from the beryllium pebble plant in the second half of 2013.

The retirement and post-employment benefit balance was \$2.6 million lower at the end of the second quarter 2013 than year-end 2012 largely due to contributions to the domestic defined pension benefit plan of \$5.5 million offset in part by the expense recorded for the various plans and other factors.

Capital expenditures totaled \$17.4 million and include \$0.9 million for the pebble plant in the first half of 2013. The capital expenditures total also included mine development costs of \$4.4 million that were part of a \$14.5 million pit in Utah that was started in 2012. We completed the pit and began extracting the ore late in the second quarter of 2013.

Dividends paid totaled \$3.2 million in the first half of 2013. The quarterly dividend was increased from \$0.075 per share to \$0.08 per share in the second quarter 2013.

Outstanding debt increased from \$94.3 million at year-end 2012 to \$96.1 million at the end of the second quarter 2013. The increased debt coupled with the cash from operations was used to fund capital expenditures and the dividend payments to shareholders.

Cash balances totaled \$15.7 million at the end of the second quarter 2013, a decrease of \$0.4 million since year-end 2012 .

Off-balance Sheet Arrangements and Contractual Obligations

We maintain the majority of our precious metals and a portion of our copper that we use in production on a consignment basis in order to reduce our exposure to metal price movements and to reduce our working capital investment. The balance outstanding under these off-balance sheet consignment arrangements totaled \$235.4 million as of the end of the second quarter 2014 compared to \$255.8 million as of year-end 2013. The decline in the outstanding balance was due to a reduction in the quantity of silver and gold on hand partially offset by higher metal prices at the end of the second quarter 2014 versus the year-end 2013 prices.

We were in compliance with the covenants contained in our consignment agreements as of June 27, 2014.

While borrowings under existing lines of credit increased in the first half of 2014, we did not enter into any new agreements during the period. For additional information on our contractual obligations, please see page 40 of our Annual Report on Form 10-K for the year ended December 31, 2013.

Liquidity

We believe funds from operations plus the available borrowing capacity and the current cash balance are adequate to support operating requirements, capital expenditures, projected pension plan contributions, the payment of quarterly dividends, share repurchases, environmental remediation projects and strategic acquisitions.

Cash used in operations was \$1.5 million in the first half of 2014. However, cash flow from operations improved in the second quarter 2014 over the first quarter 2014, as cash used in operations totaled \$23.2 million in the first quarter 2014 while cash generated by operations totaled \$21.7 million in the second quarter 2013. It is not unusual for us to consume cash in the first quarter of a given year, partially due to the payment of the prior-year incentive compensation to employees, and then generate cash from operations over the balance of the year.

In January 2014, our Board of Directors approved a plan to repurchase up to \$50.0 million of our common stock. The timing of the share purchases will depend on several factors, including market and business conditions, our cash flow, debt levels and other investment opportunities. There is no minimum required purchase quantity for a given year and the purchases may be discontinued at any time. We purchased approximately 86,000 shares at a cost of \$2.7 million in the first half of 2014.

We paid dividends to our shareholders totaling \$3.4 million in the first half of 2014. Our Board of Directors increased the quarterly dividend from \$0.08 per share to \$0.085 per share in the second quarter 2014. We intend to pay a quarterly dividend on an ongoing basis, subject to a continuing strong capital structure and a determination that the dividend remains in the best interest of the shareholders.

In the first quarter 2014, we notified the participants in the domestic retiree medical plan that we were changing from a defined benefit plan to a defined contribution plan for the majority of the plan participants. Under the revised benefit structure, we will contribute a fixed amount of cash that the participant may use to purchase a medical policy best suited to his or her own needs on an open exchange. The revised structure is designed to lower costs for the Company and the participants. Based upon the actuarial calculations of the impact of this revision, we reduced the retiree medical liability \$14.0 million in the first quarter 2014, with the offset recorded as a credit to other comprehensive income within shareholders' equity. This \$14.0 million benefit from the reduction in the liability will be recorded in income ratably over the average remaining service life, or approximately 9.5 years. Our cash payouts under the plan are anticipated to be lower over time as well.

Our domestic defined benefit pension plan was under-funded as of the end of the first half 2014. Contributions to the plan are determined by a variety of factors, including the plan funded ratio, plan investment performance, discount rates, actuarial assumptions, plan amendments, our policies and objectives, the availability of cash and other factors. We anticipate making contributions of approximately \$19.0 million to the plan during 2014. Contributions in the first half of 2014 totaled \$11.8 million, which included \$3.8 million that was originally scheduled for the fourth quarter 2013, but we were able to defer until the first quarter 2014. Contributions to be made in the second half of 2014 will be funded with cash from operations or borrowings under existing lines of credit.

As a result of the increase in debt during the first half of 2014, the total debt-to-debt-plus-equity ratio, a measure of balance sheet leverage, increased from an unusually low 12% as of year-end 2013 to 14% as of the end of the second quarter 2014. The debt-to-debt-plus-equity ratio was 16% as of the end of the first quarter 2014. Prior to the fourth quarter 2013, the debt-to-debt-plus-equity ratio was at or above 16% for the previous 15 consecutive quarters.

The available and unused borrowing capacity under the existing lines of credit, which is subject to limitations set forth in the debt covenants, was \$176.6 million as of June 27, 2014. Our revolving line of credit matures in 2018. Mandatory long-term debt payments to be made in 2014 total \$0.6 million.

The available and unused capacity under the off-balance sheet consignment lines totaled \$183.2 million as of the end of the second quarter 2014.

We also had \$18.1 million of cash as of the end of the second quarter 2014.

CRITICAL ACCOUNTING POLICIES

For additional information regarding critical accounting policies, please refer to pages 43 to 46 of our Annual Report on Form 10-K for the year ended December 31, 2013. There have been no material changes in our critical accounting policies since the inclusion of this discussion in our Annual Report on Form 10-K.

OUTLOOK

Market conditions remained mixed as of early in the third quarter 2014 and the economic growth rate is slower than what we previously anticipated. Value-added sales into the consumer electronics market increased in the first half of the year and we are positioned to capitalize on product development opportunities. However, down-stream competitive forces and changes in technologies may unfavorably impact our sales in future periods. We anticipate that the government spending patterns will continue to negatively impact shipments of optics. Shipments to the defense market for traditional beryllium products, while solid over the longer term, should continue to be subject to quarter-to-quarter variation largely due to the timing of program releases and build schedules. Demand from the automotive electronics market softened in the first half of 2014 due to an inventory overhang and other factors, but applications for our materials are expanding due to their performance characteristics as automobile manufacturers are providing longer warranties and building more infotainment capabilities into their cars. We continue to expand our application base within the oil and gas sector, but our overall sales are somewhat dependent upon the price of oil and the active rig count.

The plant consolidation program has provided cost savings as anticipated. As we move through the second half of 2014, the savings will continue, but the amount of those savings relative to 2013 will decline since a portion of the actions taken started generating savings in the second half of 2013.

Our results in the first half of 2014 included a large insurance settlement and gain on the sale of equipment as part of the plant consolidation program. These gains will not repeat in the second half of 2014.

After consuming cash in the first quarter 2014, cash flow from operations was positive in the second quarter 2014. We will look to further improve our working capital utilization and reduce debt over the balance of the year.

FORWARD-LOOKING STATEMENTS

Portions of the narrative set forth in this document that are not statements of historical or current facts are forward-looking statements, in particular, the outlook provided above. Our actual future performance may materially differ from that contemplated by the forward-looking statements as a result of a variety of factors. These factors include, in addition to those mentioned elsewhere herein:

- Actual sales, operating rates and margins for 2014;
- Our ability to strengthen our internal control over financial reporting and disclosure controls and procedures;
- The global economy;
- The impact of the U.S. Federal Government shutdowns and sequestrations;
- The condition of the markets which we serve, whether defined geographically or by segment, with the major market segments being: consumer electronics, industrial components, commercial aerospace, defense, science, automotive electronics, medical, energy and telecommunications infrastructure;
- Changes in product mix and the financial condition of customers;
- Our success in developing and introducing new products and new product ramp-up rates;
- Our success in passing through the costs of raw materials to customers or otherwise mitigating fluctuating prices for those materials, including the impact of fluctuating prices on inventory values;
- Our success in integrating acquired businesses;
- The impact of the results of acquisitions on our ability to achieve fully the strategic and financial objectives related to these acquisitions;
- Our success in achieving the expected benefits from our facility consolidations;
- Our success in implementing our strategic plans and the timely and successful completion and start-up of any capital projects, including the new primary beryllium facility in Elmore, Ohio;
- The availability of adequate lines of credit and the associated interest rates;
- Other financial factors, including the cost and availability of raw materials (both base and precious metals), physical inventory valuations, metal financing fees, tax rates, exchange rates, pension costs and required cash contributions and other employee benefit costs, energy costs, regulatory compliance costs, the cost and availability of insurance, and the impact of the Company's stock price on the cost of incentive compensation plans;
- The uncertainties related to the impact of war, terrorist activities and acts of God;
- Changes in government regulatory requirements and the enactment of new legislation that impacts our obligations and operations;
- The conclusion of pending litigation matters in accordance with our expectation that there will be no material adverse effects; and
- The risk factors set forth in Part 1, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2013.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

For information regarding market risks, please refer to pages 48 and 49 of our Annual Report on Form 10-K for the year ended December 31, 2013. There have been no material changes in our market risks since the inclusion of this discussion in our Annual Report on Form 10-K.

Item 4. Controls and Procedures

Changes in Internal Control Over Financial Reporting

As previously disclosed in Item 9A of our Form 10-K for the year ended December 31 2013, management concluded that there was a material weakness in internal control over financial reporting in the physical inventory count reconciliation process. Actions have been taken to remediate this material weakness. As new controls are still being developed and others have not been in place long enough to provide sufficient assurances to support the conclusion that the identified material weakness has been fully remediated, management concluded that, as of June 27, 2014, there was a material weakness in internal control over financial reporting in the physical inventory count reconciliation process.

Evaluation of Disclosure Controls and Procedures

We carried out an evaluation under the supervision and with the participation of our management, including the chief executive officer and chief financial officer, of the effectiveness of the design and operation of our disclosure controls and procedures as of June 27, 2014 pursuant to Rule 13a-15(b) and 15d-15(b) under the Securities Act of 1934, as amended. Based upon that evaluation, our management, including our chief executive officer and chief financial officer, concluded that our disclosure controls were not effective as of June 27, 2014 due to the material weakness described above.

There have been no changes in our internal control over financial reporting that occurred during the quarter ended June 27, 2014 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II OTHER INFORMATION

Item 1. Legal Proceedings

Our subsidiaries and our holding company are subject, from time to time, to a variety of civil and administrative proceedings arising out of our normal operations, including, without limitation, product liability claims, health, safety and environmental claims and employment-related actions. Among such proceedings are cases alleging that plaintiffs have contracted, or have been placed at risk of contracting, beryllium sensitization or chronic beryllium disease or other lung conditions as a result of exposure to beryllium (“beryllium cases”). The plaintiffs in beryllium cases seek recovery under negligence and various other legal theories and demand compensatory and often punitive damages, in many cases of an unspecified sum. Spouses of some plaintiffs claim loss of consortium.

Beryllium Claims

As of June 27, 2014, our subsidiary, Materion Brush Inc., was a defendant in two beryllium cases, as described more fully below.

The Company is one of two defendants in a case originally filed on September 25, 2012 in the Court of Common Pleas of Philadelphia County, Pennsylvania, titled Schwartz v. Accuratus Corporation et al., and subsequently removed to the United States District Court for the Eastern District of Pennsylvania (No. 12-6189). Plaintiff alleges that she contracted chronic beryllium disease from “take home” exposures resulting from her husband’s employment at facilities at the Company and of codefendant Accuratus Corporation, and asserts claims for negligence and strict liability. She seeks compensatory and exemplary damages in unspecified amounts. Her husband claims a loss of consortium.

The Company is one of five defendants in a case filed on October 4, 2013 in the Superior Court of the State of Arizona, Maricopa County, titled Parmar et al. v. Dolphin, Inc. et al., CV 2013-012980. One plaintiff alleges that he contracted chronic beryllium disease from exposures that resulted from his employment at manufacturing facilities of Karsten Manufacturing Corporation (“Karsten”) in Arizona, and asserts claims for negligence, strict liability, and fraudulent concealment. His wife claims a loss of consortium. Another plaintiff alleges that he has been diagnosed with beryllium sensitization that resulted from his employment at Karsten, and asserts a claim for medical monitoring. Plaintiffs seek compensatory and punitive damages and/or medical monitoring in unspecified sums.

The Company has some insurance coverage, subject to an annual deductible.

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

During the three months ended June 27, 2014, we repurchased 35,564 shares under our stock buyback program at an average price of \$33.87.

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Maximum Dollar Value that May Yet Be Purchased Under the Plans or Programs (1)
March 29 through May 2, 2014	—	\$ —	50,806	\$ 48,533,377
May 3 through May 30, 2014	25,614	33.15	76,420	47,683,563
May 31 through June 27, 2014	9,950	35.73	86,370	47,327,732
Total	35,564	\$ 33.87	213,596	\$ 47,327,732

⁽¹⁾ In January 2014, our Board of Directors approved a stock repurchase program for the repurchase of up to \$50,000,000 of our common stock. As of June 27, 2014, \$47,327,732 may yet be purchased under the program.

Item 4. Mine Safety Disclosures

Information concerning mine safety violations or other regulatory matters required by Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 104 of Regulation S-K (17 CFR 229.104) is included in Exhibit 95 to this quarterly report on Form 10-Q.

Item 6. Exhibits

- 3.1 Amended and Restated Code of Regulations of Materion Corporation.
- 3.2 Amended and Restated Articles of Incorporation of Materion Corporation.
- 10.1 Amended and Restated Materion Corporation 2006 Stock Incentive Plan (As Amended and Restated as of May 7, 2014)(filed as Exhibit 4.4 to the Registration Statement on Form S-8, Registration No. 333-195762, filed by the Registrant on May 7, 2014), incorporated herein by reference.
- 10.2 Amended and Restated Materion Corporation 2006 Non-employee Director Equity Plan (As Amended and Restated as of May 7, 2014)(filed as Exhibit 4.4 to the Registration Statement on Form S-8, Registration No. 333-195761, filed by the Registrant on May 7, 2014), incorporated herein by reference.
- 11 Statement regarding computation of per share earnings.
- 31.1 Certification of Chief Executive Officer required by Rule 13a-14(a) or 15d-14(a).
- 31.2 Certification of Chief Financial Officer required by Rule 13a-14(a) or 15d-14(a).
- 32 Certifications of Chief Executive Officer and Chief Financial Officer required by 18 U.S.C. Section 1350.
- 95 Mine Safety Disclosure Pursuant to Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act for the period ending March 28, 2014.
- 101.INS XBRL Instance Document.
- 101.SCH XBRL Taxonomy Extension Schema Document.
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document.
- 101.CAL XBRL Taxonomy Extension Calculation Linkbase Document.
- 101.LAB XBRL Taxonomy Extension Label Linkbase Document.
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase Document.

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.

MATERION CORPORATION

Dated: August 1, 2014

/s/ John D. Grampa

John D. Grampa

Senior Vice President Finance and
Chief Financial Officer

Exhibit Index

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*101.INS	XBRL Instance Document.
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*101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.
*101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.
*101.LAB	XBRL Taxonomy Extension Label Linkbase Document.
*101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.
*	Submitted electronically herewith.

**AMENDED AND RESTATED CODE OF REGULATIONS
OF
MATERION CORPORATION**

Shareholder Meetings

1. Time And Place Of Meetings. All meetings of the shareholders for the election of directors or for any other purpose will be held at such time and place, within or without the State of Ohio, as may be designated by the Board of Directors or, in the absence of a designation by the Board of Directors, the Chairman of the Board of Directors, if any (the "Chairman"), the President, the Secretary or any other individual entitled to give notice pursuant to Regulation 4. The time of the meeting shall be stated in the notice of meeting. The Board of Director may postpone and reschedule any previously scheduled annual or special meeting of the shareholders.

2. Annual Meeting. An annual meeting of the shareholders will be held at such time and place as may be designated pursuant to Regulation 1, at which meeting the shareholders will elect directors to succeed those directors whose terms expire at such meeting and will transact such other business as may be brought properly before the meeting in accordance with Regulation 9. If the annual meeting is not held or if the number of directors elected thereat is not sufficient to replace the directors whose terms expire at that meeting and to fill all other vacancies, directors may be elected at a special meeting called for the purpose of electing directors.

3. Special Meetings. (a) Special meetings of shareholders may be called by the Chairman, by the President, by a Vice President, by a majority of the Board of Directors acting with or without a meeting or by any person or persons who hold not less than 50% of all the shares outstanding and entitled to be voted on any proposal to be submitted at the meeting to be called. Special meetings of the holders of shares that are entitled to call a special meeting by virtue of any Preferred Stock Designation may call such meetings in the manner and for the purposes provided in the applicable terms of such Preferred Stock Designation. For purposes of this Amended and Restated Code of Regulations, "Preferred Stock Designation" means the express terms of shares of any class or series of capital stock of the Corporation, whether now or hereafter issued, with rights to distributions senior to those of the Common Stock including, without limitation, any relative, participating, optional or other special rights and privileges of, and any qualifications or restrictions on, such shares.

(b) Upon written request by any person or persons entitled to call a meeting of shareholders delivered in person or by registered mail to the President or the Secretary, such officer shall forthwith cause notice of the meeting to be given to the shareholders entitled to notice of such meeting in accordance with Regulation 4. If such notice shall not be given within 60 days after the delivery or mailing of such request, the person or persons requesting the meeting may fix the time of the meeting and give, or cause to be given, notice in the manner provided in Regulation 4.

4. Notice Of Meetings. Written notice of every meeting of the shareholders called in accordance with these Regulations (including any postponed and rescheduled meeting), stating the time, place and purposes for which the meeting is called, will be given by or at the direction of the President, a Vice President, the Secretary or an Assistant Secretary (or in case of their refusal to give notice by the person or persons entitled to call the meeting under Regulation 3). Such notice will be given by personal delivery, by mail or by electronic medium not fewer than 7 nor more than 60 calendar days before the date of the meeting to each shareholder of record entitled to notice of such meeting. If such notice is mailed, it shall be addressed to the shareholders at their respective addresses as they appear on the records of the Corporation, and notice shall be deemed to have been given on the day so mailed. Notice of adjournment of a meeting need not be given if the time and place to which it is adjourned are fixed and announced at such meeting.

5. Inspectors. Inspectors of election may be appointed to act at any meeting of shareholders in accordance with Ohio law.

6. Shareholder Lists. At any meeting of shareholders, an alphabetically arranged list, or classified lists, of the shareholders of record as of the applicable record date who are entitled to vote, showing their respective addresses and the number and classes of shares held by each, shall be produced on the request of any shareholder.

7. Quorum. To constitute a quorum at any meeting of shareholders, there shall be present, in person or by proxy, shareholders of record entitled to exercise not less than a majority of the voting power of the Corporation in respect of any one of the purposes for which the meeting is called, unless a greater or lesser number is expressly provided for with respect to a particular class or series of capital stock by the terms of any applicable Preferred Stock Designation. Except as may be otherwise provided in any Preferred Stock Designation, the holders of a majority of the voting power of the Corporation represented in person or by proxy at a meeting of shareholders, whether or not a quorum be present, may adjourn the meeting from time to time. For purposes of this Amended and Restated Code of Regulations, "voting power of the Corporation" means the aggregate voting power of (a) all the outstanding shares of Common Stock of the Corporation and (b) all the outstanding shares of any class or series of capital stock of the Corporation that has (i) rights to distributions senior to those of the Common Stock including, without limitation, any relative, participating, optional or other special rights and privileges of, and any qualifications or restrictions on, such shares and (ii) voting rights entitling such shares to vote generally in the election of directors.

8. Voting. Except as otherwise expressly required by law, the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations, at any meeting of shareholders at which a quorum is present, a majority of the votes cast, whether in person or by proxy, on any matter properly brought before such meeting in accordance with Regulation 9 will be the act of the shareholders. An abstention shall not represent a vote cast. A shareholder may revoke any proxy that is not irrevocable by attending the meeting and voting in person or by filing with the Secretary written notice of revocation or a later appointment. The vote upon any question brought before a meeting of the shareholders may be by voice vote, unless otherwise required by law, the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations or unless the presiding officer otherwise determines. Every vote taken by written ballot will be counted by the inspectors of election, if inspectors of election are appointed.

9. Order Of Business. (a) The Chairman, or such other officer of the Corporation as is designated by a majority of the total number of directors that the Corporation would have if there were no vacancies on the Board of Directors (such number being referred to as the "Whole Board"), will call meetings of shareholders to order and will act as presiding officer thereof Unless otherwise determined by the Board of Directors prior to the meeting, the presiding officer of the meeting of shareholders will also determine the order of business and have the authority in his or her sole discretion to regulate the conduct of any such meeting, including, without limitation, (i) by imposing restrictions on the persons (other than shareholders of the Corporation or their duly appointed proxies) who may attend any such shareholders' meeting, (ii) by ascertaining whether any shareholder or his proxy may be excluded from any meeting of shareholders based upon the presiding officer's determination that any such person has unduly disrupted or is likely to disrupt the proceedings of the meeting and (iii) by determining the circumstances in which and time at which any person may make a statement or ask questions at any meeting of shareholders.

(b) At an annual meeting of the shareholders, only such business will be conducted or considered as is properly brought before the meeting. To be properly brought before an annual meeting, business must be (i) specified in the notice of meeting (or any supplement thereto) given by or at the direction of the President, a Vice President, the Secretary or an Assistant Secretary in accordance with Regulation 4, (ii) otherwise properly brought before the meeting by the presiding officer or by or at the direction of a majority of the Whole Board or (iii) otherwise properly requested to be brought before the meeting by a shareholder of the Corporation in accordance with Regulation 9(c).

(c) For business to be properly requested by a shareholder to be brought before an annual meeting, the shareholder must (i) be a shareholder of the Corporation of record at the time of the giving of the notice for such annual meeting as provided for in this Amended and Restated Code of Regulations, (ii) be entitled to vote at such meeting and (iii) have given timely written notice of the request to the Secretary. To be timely, a shareholder's notice must be delivered to or mailed and received at the principal executive offices of the Corporation not fewer than 60 nor more than 90 calendar days prior to the annual meeting; *provided, however*, that in the event public announcement of the date of the annual meeting is not made at least 75 calendar days prior to the date of the annual meeting and the annual meeting is held on a date more than ten calendar days before or after the first anniversary of the date on which the prior year's annual meeting was held, notice by the shareholder, to be timely, must be so received not later than the close of business on the 10th calendar day following the day on which public announcement is first made of the date of the annual meeting. A shareholder's notice to the Secretary must set forth as to each matter the shareholder proposes to bring before the annual meeting (A) a description in reasonable detail of the business desired to be brought before the annual meeting and the reasons for conducting such business at the annual meeting, (B) the name and address, as they appear on the Corporation's books, of the shareholder proposing such business and of the beneficial owner, if other than the shareholder,

on whose behalf the proposal is made, (C) the class and number of shares of the Corporation that are owned beneficially and of record by the shareholder proposing such business and by the beneficial owner, if other than the shareholder, on whose behalf the proposal is made and (D) any material interest of the shareholder proposing such business and the beneficial owner, if other than the shareholder, on whose behalf the proposal is made in such business. Notwithstanding the foregoing provisions of this Amended and Restated Code of Regulations, a shareholder must also comply with all applicable requirements of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder with respect to the matters set forth in this Regulation 9(c). For purposes of this Regulation 9(c) and Regulation 14, "public announcement" means disclosure in a press release reported by the Dow Jones News Service, Associated Press, or comparable national news service or in a document publicly filed by the Corporation with the Securities and Exchange Commission pursuant to Sections 13, 14 or 15 of the Securities Exchange Act of 1934, as amended, or publicly filed by the Corporation with any national securities exchange or quotation service through which the Corporation's stock is listed or traded, or furnished by the Corporation to its shareholders. Nothing in this Regulation 9(c) will be deemed to affect any rights of shareholders to request inclusion of proposals in the Corporation's proxy statement pursuant to Rule 14a-8 under the Securities Exchange Act of 1934, as amended.

(d) At a special meeting of shareholders, only such business may be conducted or considered as is properly brought before the meeting. To be properly brought before a special meeting, business must be (i) specified in the notice of the meeting (or any supplement thereto) given by or at the direction of the President, a Vice President, the Secretary or an Assistant Secretary (or in case of their failure to give any required notice, the other persons entitled to give notice) in accordance with Regulation 4 or (ii) otherwise brought before the meeting by the presiding officer or by or at the direction of a majority of the Whole Board.

(e) The determination of whether any business sought to be brought before any annual or special meeting of the shareholders is properly brought before such meeting in accordance with this Regulation 9 will be made by the presiding officer of such meeting. If the presiding officer determines that any business is not properly brought before such meeting, he or she will so declare to the meeting and any such business will not be conducted or considered.

10. **Report To Shareholders.** At the annual meeting, or at the meeting held in lieu thereof, the officers of the Corporation shall lay before the shareholders a financial statement as required by statute.

11. **Action Without A Meeting.** Any action that may be authorized or taken at a meeting of the shareholders may be authorized or taken without a meeting in a writing or writings signed by all of the shareholders who would be entitled to notice of a meeting for such purpose, which writing or writings shall be filed with or entered upon the records of the Corporation.

Directors

12. **Function.** Except where the law, the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations requires action to be authorized or taken by the shareholders, all of the authority of the Corporation shall be exercised by or under the direction of the Board of Directors.

13. **Number, Terms And Election Of Directors.** (a) Until the 2017 annual meeting of shareholders, the directors of the corporation, other than those who may be expressly elected by virtue of the terms of any Preferred Stock Designation, shall be classified with respect to the time for which they severally hold office into three classes. Except as may be otherwise provided in any Preferred Stock Designation, each class will consist of not less than three directors, unless and until the number of directors of any such class is changed in accordance with this Regulation 13. The number of directors of any class will be determined from time to time by (i) the affirmative vote of the holders of a majority of the voting power of the Corporation, voting together as a single class, or (ii) a vote of a majority of the Whole Board.

(b) Directors elected at or prior to the 2014 annual meeting of shareholders will hold office for the term of three years from the date of their election and until the election of their successors (with each remaining director whose term does not expire at such meeting being referred to for the remainder of such term as a "Continuing Classified Director"). At the 2015 annual meeting of shareholders, the directors elected to succeed those directors whose terms expire at that meeting will hold office for the term of two years from the date of their election and until the election of their successors. At the 2016 annual meeting of shareholders, the directors elected to succeed those directors whose terms expire at that meeting will hold office for the term of one year from

the date of their election and until the election of their successors. At the 2017 annual meeting of shareholders, and each annual meeting of shareholders thereafter, each director will be elected for a term expiring at the next annual meeting of shareholders and until the election of their successors.

(c) At each annual meeting of the shareholders of the Corporation, the successors to the directors whose terms expire at that meeting shall be elected by a plurality of all the votes cast at such meeting. Election of directors of the Corporation need not be by written ballot unless requested by the presiding officer or by the holders of a majority of the voting power of the Corporation present in person or represented by proxy at a meeting of the shareholders at which directors are to be elected. Directors may also be elected by a majority of the votes cast at a special meeting called for the purpose of electing directors or as may otherwise be provided by any Preferred Stock Designation.

14. Newly Created Directorships And Vacancies. Except as may be otherwise provided in any Preferred Stock Designation, any vacancy (including newly created directorships resulting from any increase in the number of directors and any vacancies on the Board of Directors resulting from death, resignation, disqualification, removal, or other cause) may be filled by (i) the affirmative vote of a majority of the remaining directors then in office, even though less than a quorum of the Board of Directors, (ii) sole remaining director or (iii) the affirmative vote of the holders of a majority of the Voting Power of the Corporation, voting together as a single class, after a vote to increase the number of directors at a meeting called for that purpose in accordance with this Amended and Restated Code of Regulations. Any director elected in accordance with this Regulation 14, any Preferred Stock Designation or applicable statute will hold office for the remainder of the full term of the class of directors in which the new directorship was created or the vacancy occurred and until such director's successor has been elected.

15. Removal. Except as may otherwise be provided by any Preferred Stock Designation, all Directors, for whatever terms elected, shall hold office subject to applicable statutory provisions as to the creation of vacancies and removal; provided, however, that any Continuing Classified Director may be removed only for cause. No decrease in the number of directors constituting the Board of Directors may shorten the term of any incumbent director.

16. Nominations Of Directors; Election. (a) Except as may be otherwise provided in any Preferred Stock Designation, only persons who are nominated in accordance with this Regulation 16 will be eligible for election at a meeting of shareholders to be members of the Board of Directors of the Corporation.

(b) Nominations of persons for election as directors of the Corporation may be made only at a meeting of shareholders (i) by or at the direction of the Board of Directors or a committee thereof or (ii) by any shareholder who is a shareholder of record at the time of giving of notice provided for in this Regulation 16, who is entitled to vote for the election of directors at such meeting, and who complies with the procedures set forth in this Regulation 16. All nominations by shareholders must be made to the Secretary in proper written form and must be timely.

(c) To be timely, a shareholder's notice must be delivered to or mailed and received at the principal executive offices of the Corporation, in the case of a special meeting of the shareholders, at the time the meeting request is made in accordance with Regulation 3, or, in the case of an annual meeting, not fewer than 60 nor more than 90 calendar days prior to such annual meeting; *provided, however*, that in the event that public announcement of the date of the annual meeting is not made at least 75 calendar days prior to the date of the annual meeting and the annual meeting is held on a date more than one week before or after the first anniversary of the date on which the prior year's annual meeting, was held, notice by the shareholder to be timely must be so received not later than the close of business on the 10th calendar day following the day on which public announcement is first made of the date of the annual meeting.

(d) To be in proper written form, such shareholder's notice must set forth or include:

(i) the name and address, as they appear on the Corporation's books, of the shareholder giving the notice and of the beneficial owner, if any, on whose behalf the nomination is made;

(ii) a representation that the shareholder giving the notice is a holder of record of stock of the Corporation entitled to vote at such annual meeting and intends to appear in person or by proxy at the annual meeting to nominate the person or persons specified in the notice;

(iii) the class and number of shares of stock of the Corporation owned beneficially and of record by the shareholder giving the notice and by the beneficial owner, if any, on whose behalf the nomination is made;

(iv) a description of all arrangements or understandings between or among any of (A) the shareholder giving the notice, (B) the beneficial owner on whose behalf the notice is given, (C) each nominee and (D) any other person or persons (naming such person or persons) pursuant to which the nomination or nominations are to be made by the shareholder giving the notice;

(v) such other information regarding each nominee proposed by the shareholder giving the notice as would be required to be included in a proxy statement filed pursuant to the proxy rules of the Securities and Exchange Commission had the nominee been nominated, or intended to be nominated, by the Board of Directors; and

(vi) the signed consent of each nominee to serve as a director of the Corporation if so elected.

(e) The presiding officer of any annual meeting may, if the facts warrant, determine that a nomination was not made in accordance with this Regulation 16, and if he or she should so determine, he or she will so declare to the meeting, and the defective nomination will be disregarded. Notwithstanding the foregoing provisions of this Regulation 16, a shareholder must also comply with all applicable requirements of the Securities Exchange Act of 1934, as amended, and the rules and regulations thereunder with respect to the matters set forth in this Regulation 16.

17. Resignation. Any director may resign at any time by giving written notice of his resignation to the Chairman or the Secretary. Any resignation will be effective upon actual receipt by any such person or, if later, as of the date and time specified in such written notice.

18. Regular Meetings. Regular meetings of the Board of Directors shall be held immediately after the annual meeting of the shareholders and at such other time and place either within or without the State of Ohio as may from time to time be determined by a majority of the Whole Board. Notice of regular meetings of the Board of Directors need not be given.

19. Special Meetings. Special meetings of the Board of Directors may be called by the Chairman, by the President, by a Vice President, by the Secretary or by any two directors. Notice of special meetings, stating the place, date and hour, shall be given to each director by whom such notice is not waived. Notice must be given either personally or by mail, telephone, telegram, telex, facsimile or similar medium of communication not less than twenty-four hours before the designated hour for such meeting. Special meetings of the Board of Directors may be held at such time and place either within or without the State of Ohio as is determined by a majority of the Whole Board or specified in the notice of any such meeting.

20. Quorum And Vote. At all meetings of the Board of Directors, a majority of the total number of directors then in office will constitute a quorum for the transaction of business. Except as may be otherwise provided in any Preferred Stock Designation or by this Amended and Restated Code of Regulations, the act of a majority of the directors present at any meeting at which a quorum is present will be the act of the Board of Directors. If a quorum is not present at any meeting of the Board of Directors, the directors present thereat may adjourn the meeting from time to time to another time or place, without notice other than announcement at the meeting, until a quorum is present.

21. Action Without A Meeting. Any action that may be authorized or taken at a meeting of the Board of Directors may be authorized or taken without a meeting in a writing or writings signed by all the directors, which writing or writings shall be filed with or entered upon the records of the Corporation.

22. Participation In Meetings By Communications Equipment. Meetings of the Board of Directors or of any committee of the Board of Directors may be held through any means of communication equipment if all persons participating can hear each other, and such participation will constitute presence in person at such meeting.

23. Committees. The Board of Directors may from time to time create an executive committee or any other committee or committees of directors to act in the intervals between meetings of the Board of Directors and may delegate to such committee

or committees any of its authority other than that of filling vacancies among the Board of Directors or in any committee of the Board of Directors. Each committee shall consist of one or more directors. The Board of Directors may appoint one or more directors as alternate members of any such committee to take the place of absent committee members at meetings of such committee. Unless otherwise ordered by the Board of Directors, a majority of the members of any committee appointed by the Board of Directors pursuant to this Regulation 23 shall constitute a quorum at any meeting thereof, and the act of a majority of the members present at a meeting at which a quorum is present shall be the act of such committee. Action may be taken by any such committee without a meeting by a writing or writings signed by all of its members. Any such committee shall prescribe its own rules for calling and holding meetings and its method of procedure, subject to any rules prescribed by the Board of Directors, and will keep a written record of all action taken by it.

24. Compensation. The Board of Directors may establish the compensation and expense reimbursement policies for directors in exchange for service on the Board of Directors and on committees of the Board of Directors, for attendance at meetings of the Board of Directors or committees of the Board of Directors, and for other services by directors to the Corporation or any of its subsidiaries.

25. Bylaws. The Board of Directors may adopt Bylaws for the conduct of its meetings and those of any committees of the Board of Directors that are not inconsistent with the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations.

Officers

26. Generally. The Corporation may have a Chairman, elected by the directors from among their number, and shall have a President, who shall also be a director, a Secretary and a Treasurer. The Corporation may also have one or more Vice Presidents and such other officers and assistant officers as the Board of Directors may deem appropriate. If the Board of Directors so desires, it may elect a Chief Executive Officer to manage the affairs of the Corporation, subject to the direction and control of the Board of Directors. All of the officers shall be elected by the Board of Directors. Notwithstanding the foregoing, by specific action, the Board of Directors may authorize the Chairman or the President to appoint any person to any office other than Chairman, President, Secretary or Treasurer. Any number of offices may be held by the same person, and no two offices must be held by the same person. Any of the offices, other than the office of President, Secretary and Treasurer, may be left vacant from time to time as the Board of Directors may determine. In case of the absence or disability of any officer of the Corporation or for any other reason deemed sufficient by a majority of the Board of Directors, the Board of Directors may delegate the absent or disabled officer's powers or duties to any other officer or to any director.

27. Authority And Duties Of Officers. The officers of the Corporation shall have such authority and shall perform such duties as are customarily incident to their respective offices, or as may be specified from time to time by the Board of Directors, regardless of whether such authority and duties are customarily incident to such office.

28. Compensation. The compensation of all officers and agents of the Corporation who are also members of the Board of Directors of the Corporation will be fixed by the Board of Directors or by a committee of the Board of Directors. The Board of Directors may fix the compensation of the other officers and agents of the Corporation, or delegate the power to fix such compensation, to the Chief Executive Officer or any other officer of the Corporation.

29. Succession. The officers of the Corporation will hold office until their successors are elected pursuant to Regulation 26. Any officer may be removed at any time by the affirmative vote of a majority of the Whole Board. Any vacancy occurring in any office of the Corporation may be filled by the Board of Directors or by the Chairman or President as provided in Regulation 26.

Stock

30. Transfer And Registration Of Certificates. The Board of Directors shall have authority to make such rules and regulations as it deems expedient concerning the issuance, transfer and registration of certificates for shares and the shares represented thereby and may appoint transfer agents and registrars thereof.

31. **Substituted Certificates.** Any person claiming a certificate for shares to have been lost, stolen or destroyed (i) shall make an affidavit or affirmation of that fact, (ii) shall give the Corporation and its registrar or registrars and its transfer agent or agents a bond of indemnity satisfactory to the Board of Directors or a committee thereof or to the President or a Vice President and the Secretary or the Treasurer and (iii) shall, if required by the Board of Directors or a committee thereof or the officers named in this Regulation 31, advertise the fact that the certificate has been lost, stolen or destroyed, whereupon a new certificate may be executed and delivered of the same tenor and for the same number of shares as the one alleged to have been lost, stolen or destroyed.

32. **Voting Of Shares Held By The Corporation.** Unless otherwise ordered by the Board of Directors, the President, in person or by proxy or proxies appointed by him, shall have full power and authority **on** behalf of the Corporation to vote, act and consent with respect to any shares issued by other corporations and owned by the Corporation.

33. **Record Dates And Owners.** (a) In order that the Corporation may determine the shareholders entitled to notice of or to vote at any meeting of shareholders or any adjournment thereof, or to designate an agent to act on behalf of the shareholders to call a special meeting of shareholders, or to take any other collective action on behalf of the shareholders, the Board of Directors may fix a record date, which will not be fewer than 7 nor more than 60 calendar days before the date of such meeting. If no record date is fixed by the Board of Directors, the record date for determining shareholders entitled to notice of or to vote at a meeting of shareholders will be the date next preceding the day **on** which notice is given, or, if notice is waived, the date next preceding the day on which the meeting is held.

(b) The Corporation will be entitled to treat the person in whose name shares are registered on the books of the Corporation as the absolute owner thereof, and will not be bound to recognize any equitable or other claim to, or interest in, such share on the part of any other person, whether or not the Corporation has knowledge or notice of the claim or interest, except as expressly provided by applicable law.

Indemnification and Insurance

34. Indemnification.

(a) The Corporation shall indemnify, to the full extent then permitted by law, any director or officer or former director or officer of the Corporation who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he is or was a member of the Board of Directors or an officer, employee or agent of the Corporation, or is or was serving at the request of the Corporation as a director, trustee, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise. The Corporation shall pay, to the full extent then required by law, expenses, including attorney's fees, incurred by a member of the Board of Directors in defending any such action, suit or proceeding as they are incurred, in advance of the final disposition thereof.

(b) To the full extent then permitted by law, the Corporation may indemnify employees, agents and other persons and may pay expenses, including attorney's fees, incurred by any employee, agent or other person in defending any action, suit or proceeding as such expenses are incurred, in advance of the final disposition thereof.

(c) The indemnification and payment of expenses provided by this Regulation 34 shall not be exclusive of, and shall be in addition to, any other rights granted to any person seeking indemnification under any law, the Amended and Restated Articles of Incorporation, any agreement, vote of shareholders or disinterested members of the Board of Directors, or otherwise, both as to action in official capacities and as to action in another capacity while he or she is a member of the Board of Directors or an officer, employee or agent of the Corporation, and shall continue as to a person who has ceased to be a member of the Board of Directors, trustee, officer, employee or agent and shall inure to the benefit of the heirs, executors, and administrators of such a person.

35. **Insurance.** The Corporation may, to the full extent then permitted by law and authorized by the Board of Directors, purchase and maintain insurance or furnish similar protection, including but not limited to trust funds, letters of credit or self- insurance, on behalf of or for any persons described in Regulation 34 against any liability asserted against and incurred by any

such person in any such capacity, or arising out of his status as such, whether or not the Corporation would have the power to indemnify such person against such liability. Insurance may be purchased from or maintained with a person in which the Corporation has a financial interest.

36. Agreements. The Corporation, upon approval by the Board of Directors, may enter into agreements with any persons who the Corporation may indemnify under this Amended and Restated Code of Regulations or under law and may undertake thereby to indemnify such persons and to pay the expenses incurred by them in defending any action, suit or proceeding against them, whether or not the Corporation would have the power under law or this Amended and Restated Code of Regulations to indemnify any such person.

General

37. Fiscal Year. The fiscal year of the Corporation will end on the thirty-first day of December in each calendar year or such other date as may be fixed from time to time by the Board of Directors.

38. Seal. The seal of the Corporation shall be circular in form with the name of the Corporation stamped around the margin and the word "Seal" stamped across the center.

39. Amendments. Except as otherwise provided by law or by the Amended and Restated Articles of Incorporation or this Amended and Restated Code of Regulations, these Regulations or any of them may be amended in any respect or repealed at any time, either (i) by the affirmative vote of the holders of a majority of the voting power of the Corporation, voting together as a single class, or (ii) to the extent as may be permitted by Chapter 1701 of the Ohio Revised Code in effect from time to time, by the Board of Directors.

40. Control Share Acquisitions. Section 1701.831 of the Ohio Revised Code does not apply to "control share acquisitions" of shares of capital stock of the Corporation.

**AMENDED AND RESTATED ARTICLES OF INCORPORATION
OF
MATERION CORPORATION.**

ARTICLE I

The name of the Corporation shall be Materion Corporation (the "Corporation").

ARTICLE II

The place in the State of Ohio where the Corporation's principal office is to be located is the City of Cleveland, Cuyahoga County.

ARTICLE III

A. Authorized Capital Stock.

The total number of shares of capital stock which the Corporation shall have authority to issue is 65,000,000, of which (a) 5,000,000 shares shall be preferred stock, no par value ("Preferred Stock"), and (b) 60,000,000 shares shall be common stock, no par value ("Common Stock").

B. Preferred Stock.

The Board of Directors of the Corporation (the "Board") shall have authority to issue Preferred Stock from time to time in one or more classes or series. The express terms of shares of a different series of any particular class shall be identical except for such variations as may be permitted by law. Unless this provision is expressly modified by a Preferred Stock Designation (as hereinafter defined) in accordance with then-applicable law, the holders of Preferred Stock will be entitled to one vote on each matter submitted to a vote at a meeting of shareholders for each share of Preferred Stock held of record by such holder as of the record date for such meeting.

ARTICLE IV

The Board shall be authorized hereby to exercise all powers now or hereafter permitted by law providing rights to the Board to adopt amendments to these Amended and Restated Articles of Incorporation (i) to fix or change the express terms of any unissued or treasury shares of any class, including, without limitation the generality of the foregoing: division of such shares into series and the designation and authorized number of shares of each series; voting rights of such shares; dividend or distribution rate; dates of payment of dividends or distributions and the dates from which they are cumulative; liquidation price; redemption rights and price; sinking fund requirements; conversion rights; and restrictions on the issuance of shares of the same series or any other class or series; all as may be established by resolution of the Board from time to time (collectively with the terms of the Preferred Stock, a "Preferred Stock Designation"), and (ii) to include within these Amended and Restated Articles of Incorporation such additional provisions, or amendments to any existing provisions, as may hereafter be authorized by law.

ARTICLE V

The Corporation may from time to time, pursuant to authorization by the Board and without action by the shareholders, purchase or otherwise acquire capital stock of the Corporation of any class or classes in such manner, upon such terms and in such amounts as the Board shall determine; subject, however, to such limitation or restriction, if any, as is contained in any Preferred Stock Designation at the time of such purchase or acquisition.

ARTICLE VI

Subject to Article VI of these Amended and Restated Articles of Incorporation and any Preferred Stock Designation, and notwithstanding any provision of the Ohio Revised Code now or hereafter in force requiring for any purpose the vote, consent, waiver or release of the holders of shares entitling them to exercise two-thirds, or any other proportion, of the voting

power of the Corporation or of any class or classes of shares thereof, such action, unless otherwise expressly required by statute or by these Amended and Restated Articles of Incorporation, may be taken by the vote, consent, waiver or release of the holders of shares entitling them to exercise a majority of the voting power of the Corporation or of such classes. For purposes of these Amended and Restated Articles of Incorporation, "voting power of the Corporation" means the aggregate voting power of (a) all the outstanding shares of Common Stock of the Corporation and (b) all the outstanding shares of any class or series of capital stock of the Corporation that has (i) rights to distributions senior to those of the Common Stock including, without limitation, any relative, participating, optional, or other special rights and privileges of, and any qualifications or restrictions on, such shares and (ii) voting rights entitling such shares to vote generally in the election of directors.

ARTICLE VII

Section 1. In addition to any affirmative vote required by law or these Amended and Restated Articles of Incorporation, any Related Party Transaction shall require the affirmative vote of not less than both a majority of the Corporation's outstanding Voting Stock and a majority of the portion of the Corporation's outstanding Voting Stock excluding the Voting Stock owned by the Related Party involved in the Related Party Transaction. In the event of any inconsistency between this Article VII and any other provision of these Amended and Restated Articles of Incorporation, this Article VII shall govern.

Section 2. The provisions of Section 1 of this Article VII shall not be applicable to Related Party Transactions in which (a) the aggregate amount of the cash and the fair market value of consideration other than cash received per share by holders of outstanding shares of each class or series of Voting Stock of the Corporation who receive cash or other consideration in the Related Party Transaction is not less than the highest per share price (with appropriate adjustments for recapitalizations and for stock splits, stock dividends, and other distributions) paid by the Related Party in acquiring any of its holdings of each class or series of such Voting Stock and (b) the form of consideration received by holders of shares of each class or series of such Voting Stock in cash or the same form of the consideration used by the Related Party to acquire the largest percentage of each class or series of such Voting Stock owned by the Related Party.

Section 3. The provisions of Section 1 of this Article VII shall not be applicable to any Related Party Transaction expressly approved by a majority vote of the Continuing Directors of the Corporation.

Section 4. For The Purpose Of This Article VII:

(a) The term "Related Party Transaction" shall mean (i) any merger or consolidation of the Corporation or a Subsidiary with a Related Party, irrespective of which party, if either, is the surviving party, (ii) any sale, purchase, lease, exchange, transfer, or other transaction (or series of transactions) between the Corporation or a Subsidiary and a Related Party involving the acquisition or disposition of assets for consideration of \$5,000,000 or more in value (except transactions in the ordinary course of business), (iii) the issuance or transfer of any securities of the Corporation or of a Subsidiary to a Related Party (other than an issuance or transfer of securities which is effected on a pro rata basis to all shareholders of the Corporation), (iv) any reclassification of securities of the Corporation (including any reverse stock split) or any recapitalization or other transaction involving the Corporation or its Subsidiaries that would have the effect of increasing the voting power of a Related Party, except for any mandatory redemption required by the terms of outstanding securities, and (v) the adoption of any plan or proposal for the liquidation or dissolution of the Corporation in favor of which a Related Party votes its Voting Stock.

(b) The term "Related Party" shall mean (i) any individual, corporation, partnership, or other person, group or entity which, together with its Affiliates and Associates, is the beneficial owner of ten percent (10%) or more but less than ninety percent (90%) of the Voting Stock of the Corporation or (ii) any such Affiliate or Associate.

(c) A person shall be a "beneficial owner" of any shares of Voting Stock:

- (1) Which such person or any of its Affiliates or Associates beneficially owns, directly or indirectly; or
 - (2) Which such person or any of its Affiliates or Associates has
-

(i) the right to acquire (whether such right is exercisable immediately or only after the passage of time) pursuant to any agreement, arrangement or understanding or upon the exercise of conversion rights, exchange rights, warrants or options, or otherwise, or

(ii) the right to vote pursuant to any agreement, arrangement or understanding; or

(3) Which are beneficially owned, directly or indirectly, by any other person with which such person or any of its Affiliates or Associates has any agreement, arrangement or understanding for the purpose of acquiring, holding, voting or disposing of any shares of Voting Stock.

(d) The terms "Affiliate" and "Associate" shall have the respective meanings ascribed to such terms in Rule 1 2b-2 of the General Rules and Regulations under the Securities Exchange Act of 1934, as in effect on the date of these Amended and Restated Articles of Incorporation.

(e) The term "consideration other than cash" as used in Section 2(a) of this Article Seventh shall include, without limitation, Voting Stock of the Corporation retained by its existing shareholders in the event of a merger or consolidation with a Related Party in which the Corporation is the surviving corporation.

(f) The term "Subsidiary" shall mean any Affiliate of the Corporation more than fifty percent (50%) of the outstanding securities of which representing the right, other than as affected by events of default, to vote for the election of directors is owned by the Corporation or by another Subsidiary (or both).

(g) The term "Voting Stock" shall mean all securities of the Corporation entitled to vote generally in the election of directors.

(h) The term "Continuing Director" shall mean a director who either (i) was a member of the Board immediately prior to the time that the Related Party involved in a Related Party Transaction became a Related Party, or (ii) was designated (before his or her initial election as a director) as a Continuing Director by a majority of the then Continuing Directors.

Section 5. A majority of the Continuing Directors shall have the power and duty to determine conclusively for the purposes of this Article VII, on the basis of information known to them, (a) whether a person is a Related Party, (b) whether a person is an Affiliate or Associate of another, (c) whether a transaction between the Corporation or a Subsidiary and a Related Party involves the acquisition or disposition of assets for consideration of 55,000,000 or more in value, (d) the fair market value of consideration other than cash received by holders of Voting Stock in a Related Party Transaction, and (e) such other matters with respect to which a determination or interpretation is required under this Article VII.

Section 6. Nothing contained in this Article VII shall be construed to relieve any Related Party from any fiduciary or other obligation imposed by law.

Section 7. Notwithstanding any other provision of these Amended and Restated Articles of Incorporation or the Amended and Restated Code of Regulations of the Corporation or any provision of law which might otherwise permit a lesser vote, but in addition to any affirmative vote of the holders of any particular class or series of stock required by law, these Amended and Restated Articles of Incorporation or the Amended and Restated Code of Regulations of the Corporation, the affirmative vote of the holders of at least sixty-six and two-thirds percent (66 2/3%) of the Corporation's Voting Stock, voting as a single class, shall be required to alter, amend or adopt any provision inconsistent with or repeal this Article VII.

ARTICLE VIII

Except as may be provided in any Preferred Stock Designation, no holder of any shares of capital stock of the Corporation shall have any preemptive right to acquire any shares of unissued capital stock of any class or series, now or hereafter authorized, or any treasury shares or securities convertible into such shares or carrying a right to subscribe to or acquire such shares of capital stock.

ARTICLE IX

Any and every statute of the State of Ohio hereafter enacted, (i) whereby the rights, powers or privileges of corporations or of the shareholders of corporations organized under the laws of the State of Ohio are increased or diminished or in any way affected, or (ii) whereby effect is given to the action taken by any number, less than all, of the shareholders of any such corporation, or (iii) whereby the authority of the directors to adopt amendments to the articles of incorporation without shareholder approval shall be expanded, will apply to the Corporation and will be binding not only upon the Corporation but upon every shareholder of the Corporation to the same extent as if such statute had been in force at the date of filing these Amended and Restated Articles of Incorporation in the office of the Secretary of State of Ohio.

ARTICLE X

Except as may be otherwise provided in any Preferred Stock Designation, the number of the directors of the Corporation will not be less than 9 nor more than 18 as may be determined from time to time only (i) by a vote of a majority of the total number of directors that the Corporation would have if there were no vacancies on the Board, or (ii) by the affirmative vote of the holders of at least 50% of the voting power of the Corporation, voting together as a single class. Until the 2017 annual meeting of shareholders, the directors, other than those who may be expressly elected by virtue of the terms of any Preferred Stock Designation, will be classified with respect to the time for which they severally hold office into three classes, as nearly equal in size as possible and consisting of not less than three directors in each class. Directors elected at or prior to the 2014 annual meeting of shareholders will hold office for the term of three years from the date of their election and until the election of their successors. At the 2015 annual meeting of shareholders, the directors elected to succeed those directors whose terms expire at that meeting will hold office for the term of two years from the date of their election and until the election of their successors. At the 2016 annual meeting of shareholders, the directors elected to succeed those directors whose terms expire at that meeting will hold office for the term of one year from the date of their election and until the election of their successors. At the 2017 annual meeting of shareholders, and each annual meeting of shareholders thereafter, each director will be elected for a term expiring at the next annual meeting of shareholders and until the election of their successors. Except as may be otherwise provided in any Preferred Stock Designation, at each annual meeting of the shareholders of the Corporation, the successors to the directors whose terms expire at that meeting shall be elected by a plurality vote of all votes cast at such meeting. No holder of shares of any class of capital stock of the Corporation shall have the right to cumulate the voting power in respect of those shares in the election of directors, and the right to cumulate the voting power in the election of directors as provided in Section 1701.55 of the Ohio Revised Code is hereby specifically denied to all holders of shares of any class of capital stock of the Corporation. No decrease in the number of directors constituting the Board of Directors may shorten the term of any incumbent director. Election of directors of the Corporation need not be by written ballot unless requested by the presiding officer or by the holders of a majority of the voting power of the Corporation present in person or represented by proxy at a meeting of the shareholders at which directors are to be elected.

ARTICLE XI

These Amended and Restated Articles of Incorporation supersede the existing Articles of Incorporation of the Corporation.

MATERION CORPORATION AND SUBSIDIARIES
COMPUTATION OF PER SHARE EARNINGS

	Second Quarter Ended		First Half Ended	
	Jun. 27, 2014	Jun. 28, 2013	Jun. 27, 2014	Jun. 28, 2013
(Thousands, except per share amounts)				
Basic:				
Average shares outstanding	20,642	20,566	20,625	20,524
Net Income	\$ 9,974	\$ 4,155	\$ 17,305	\$ 10,940
Per share amount	\$ 0.48	\$ 0.20	\$ 0.84	\$ 0.53
Diluted:				
Average shares outstanding	20,642	20,566	20,625	20,524
Dilutive stock securities based on the treasury stock method using average market price	359	303	358	321
Totals	21,001	20,869	20,983	20,845
Net Income	\$ 9,974	\$ 4,155	\$ 17,305	\$ 10,940
Per share amount	\$ 0.47	\$ 0.20	\$ 0.82	\$ 0.52

Stock appreciation rights with exercise prices in excess of the average market price of common shares totaling 409,000 for the quarter ended June 27, 2014 and 523,000 for the quarter ended June 28, 2013 and 562,000 for the first half ended June 27, 2014 and 470,000 for the first half ended June 28, 2013 were excluded from the dilution calculation as their effect would have been anti-dilutive.

CERTIFICATIONS

I, Richard J. Hipple, certify that:

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

Dated: August 1, 2014

/s/ Richard J. Hipple

Richard J. Hipple

Chairman, President and Chief Executive Officer

CERTIFICATIONS

I, John D. Grampa, certify that:

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

Dated: August 1, 2014

/s/ John D. Grampa

John D. Grampa

Senior Vice President Finance and Chief Financial Officer

**Certification Pursuant to
18 U.S.C. Section 1350,
As Adopted Pursuant to
Section 906 of the Sarbanes-Oxley Act of 2002**

Pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, in connection with the filing of the Quarterly Report on Form 10-Q of Materion Corporation (the "Company") for the quarter ended June 27, 2014, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), each of the undersigned officers of the Company certifies that, to such officer's knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m or 78o(d)), and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company as of the dates and for the periods expressed in the Report.

Dated: August 1, 2014

/s/ Richard J. Hipple

Richard J. Hipple

Chairman, President and Chief Executive Officer

/s/ John D. Grampa

John D. Grampa

Senior Vice President Finance and Chief Financial Officer

Materion Corporation

**Mine Safety Disclosure Pursuant to Section 1503(a) of the Dodd-Frank Wall Street Reform and
Consumer Protection Act for the Fiscal Quarter Ended June 27, 2014**

Materion Natural Resources Inc., a wholly owned subsidiary, operates a beryllium mining complex in the State of Utah which is regulated by both the U.S. Mine Safety and Health Administration (“MSHA”) and state regulatory agencies. We endeavor to conduct our mining and other operations in compliance with all applicable federal, state and local laws and regulations. We present information below regarding certain mining safety and health citations which MSHA has levied with respect to our mining operations.

Section 1503(a) of the Dodd-Frank Wall Street Reform and Consumer Protection Act (“Section 1503(a)”) requires the Company to present certain information regarding mining safety in its periodic reports filed with the Securities and Exchange Commission.

The following table reflects citations, orders and notices issued to Materion Natural Resources Inc. by MSHA during the fiscal quarter ended June 27, 2014 (the “Reporting Period”) and contains certain additional information as required by Section 1503(a) and Item 104 of Regulation S-K, including information regarding mining-related fatalities, proposed assessments from MSHA and legal actions (“Legal Actions”) before the Federal Mine Safety and Health Review Commission, an independent adjudicative agency that provides administrative trial and appellate review of legal disputes arising under the Mine Act.

Included below is the information required by Section 1503(a) with respect to the beryllium mining complex (MSHA Identification Number 4200706) for the Reporting Period:

(A)	Total number of alleged violations of mandatory health or safety standards that could significantly and substantially contribute to the cause and effect of a mine safety or health hazard under Section 104 of the Mine Act for which Materion Natural Resources Inc. received a citation from MSHA	0
(B)	Total number of orders issued under Section 104(b) of the Mine Act	0
(C)	Total number of citations and orders for alleged unwarrantable failure by Materion Natural Resources Inc. to comply with mandatory health or safety standards under Section 104(d) of the Mine Act	0
(D)	Total number of alleged flagrant violations under Section 110(b)(2) of the Mine Act	0
(E)	Total number of imminent danger orders issued under Section 107(a) of the Mine Act	0
(F)	Total dollar value of proposed assessments from MSHA under the Mine Act	\$100
(G)	Total number of mining-related fatalities	0
(H)	Received notice from MSHA of a pattern of violations under Section 104(e) of the Mine Act	No
(I)	Received notice from MSHA of the potential to have a pattern of violations under Section 104(e) of the Mine Act	No
(J)	Total number of Legal Actions pending as of the last day of the Reporting Period	0
(K)	Total number of Legal Actions instituted during the Reporting Period	0
(L)	Total number of Legal Actions resolved during the Reporting Period	0