

GRACE

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Fourth Quarter 2016 Business Update

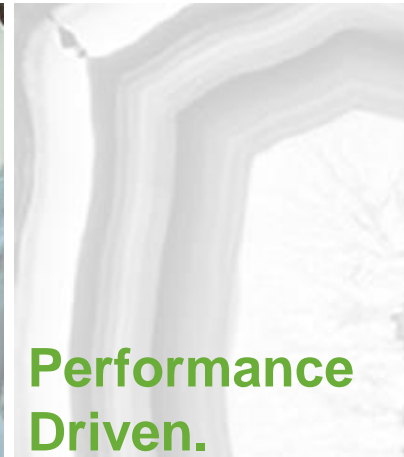
Investor Presentation
February 8, 2017



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Innovative.



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Statement Regarding Safe Harbor For Forward-Looking Statements

This presentation contains forward-looking statements, that is, information related to future, not past, events. Such statements generally include the words “believes,” “plans,” “intends,” “targets,” “will,” “expects,” “suggests,” “anticipates,” “outlook,” “continues,” or similar expressions. Forward-looking statements include, without limitation, expected financial positions; results of operations; cash flows; financing plans; business strategy; operating plans; capital and other expenditures; competitive positions; growth opportunities for existing products; benefits from new technology and cost reduction initiatives, plans and objectives; and markets for securities. For these statements, Grace claims the protection of the safe harbor for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Exchange Act. Like other businesses, Grace is subject to risks and uncertainties that could cause its actual results to differ materially from its projections or that could cause other forward-looking statements to prove incorrect. Factors that could cause actual results to materially differ from those contained in the forward-looking statements include, without limitation: risks related to foreign operations, especially in emerging regions; the cost and availability of raw materials and energy; the effectiveness of its research and development and growth investments; acquisitions and divestitures of assets and gains and losses from dispositions; developments affecting Grace’s outstanding indebtedness; developments affecting Grace’s funded and unfunded pension obligations; its legal and environmental proceedings; uncertainties that may delay or negatively impact the separation transaction or cause the separation transaction to not occur at all; uncertainties related to the company’s ability to realize the anticipated benefits of the spin-off; the inability to establish or maintain certain business relationships and relationships with customers and suppliers or the inability to retain key personnel; costs of compliance with environmental regulation; and those additional factors set forth in Grace’s most recent Annual Report on Form 10-K, quarterly report on Form 10-Q and current reports on Form 8-K, which have been filed with the Securities and Exchange Commission and are readily available on the Internet at www.sec.gov. Reported results should not be considered as an indication of future performance. Readers are cautioned not to place undue reliance on Grace’s projections and forward-looking statements, which speak only as the date thereof. Grace undertakes no obligation to publicly release any revision to the projections and forward-looking statements contained in this announcement, or to update them to reflect events or circumstances occurring after the date of this presentation.

Non-GAAP Financial Terms

In this presentation, Grace presents financial information in accordance with U.S. generally accepted accounting principles (U.S. GAAP), as well as the non-GAAP financial information described in the Appendix. Grace believes that this non-GAAP financial information provides useful supplemental information about the performance of its businesses, improves period-to-period comparability and provides clarity on the information management uses to evaluate the performance of its businesses. In the Appendix, Grace has provided reconciliations of these non-GAAP financial measures to the most directly comparable financial measure calculated and presented in accordance with U.S. GAAP. These non-GAAP financial measures should not be considered as a substitute for financial measures calculated in accordance with U.S. GAAP, and the financial results calculated in accordance with U.S. GAAP and reconciliations from those results should be evaluated carefully.

4Q16

- Sales up 4% YoY
- Adjusted EBIT up 11% YoY
- Adjusted EBIT margin up 170 bps YoY
- Adjusted EPS up 32% YoY
- Adjusted Free Cash Flow of \$236.0M for the full year 2016

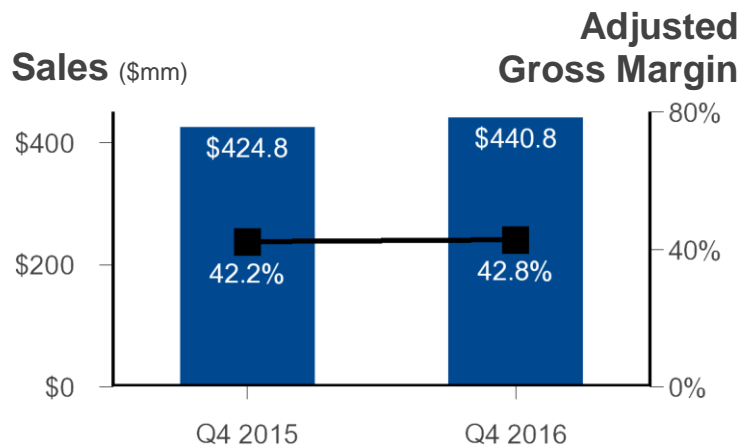
FY17 Guidance

- Adjusted EPS of \$3.30 - \$3.55 per share, up 6%-15% YoY
- Sales growth of 3%-6% (4%-7% on a constant currency basis)
- Adjusted EBIT of \$415M - \$440M
- Adjusted EBITDA of \$525M - \$550M
- Adjusted Free Cash Flow of \$265M - \$275M
- (assumes an average 1.05 EUR/USD exchange rate for the year)

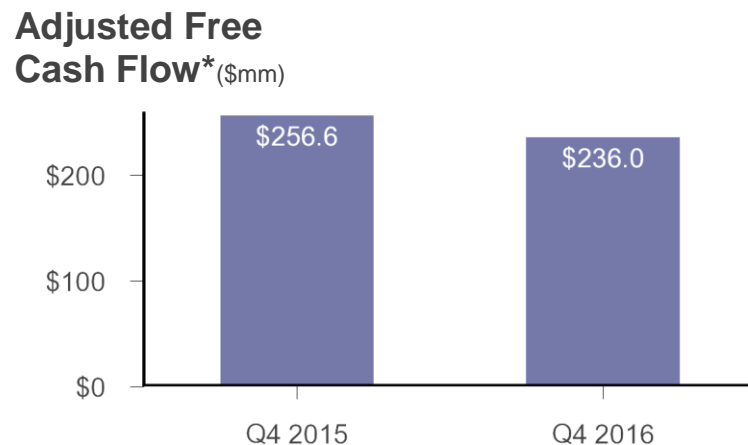
Capital Allocation

- Integrating acquisition of BASF polyolefin catalyst business
- Returned \$36M to shareholders through dividends in FY16
- Stock buy back of \$195M or 2,775,000 shares completed in FY16
- New share repurchase program of up to \$250M authorized by BOD
- Raising quarterly cash dividend 24% to \$0.21 per share

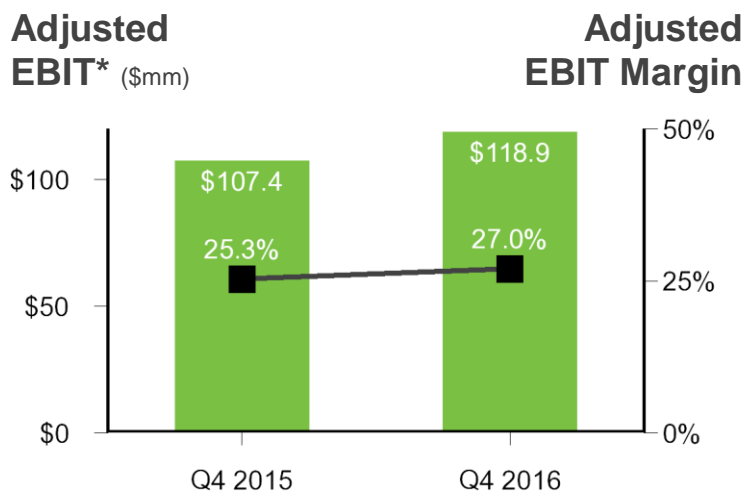
Note: The prior year quarter (4Q15) is on a discontinued operations basis (adjusting for the separation of GCP Applied Technologies Inc.) and includes approximately \$11M of additional operating costs.



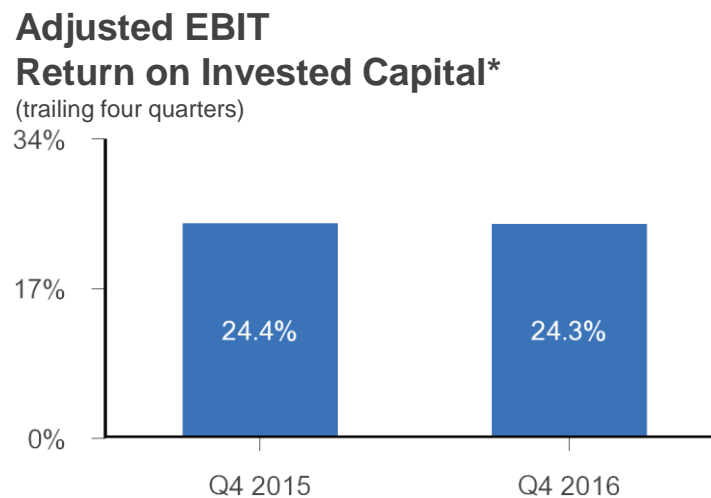
Sales up 4%, Strong gross margin up 60 bps



Opportunistically paid an additional \$14M in international tax in 4Q16, excluding this met FY16 AFCF target of \$250M



Strong Adj. EBIT Margin up 170 bps



*Definitions of non-GAAP financial terms and reconciliations to the closest GAAP term are provided in the Appendix

- Sales growth driven by both refining catalysts and specialty catalysts volumes
- Gross margin up 40 bps YoY
- ART joint venture contributed \$11.8M to segment operating income
- Polyolefin catalysts integration going well

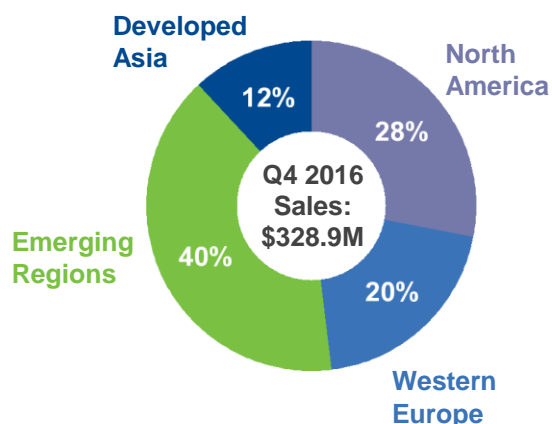
| (in millions of dollars) | Q4 2015 | Q4 2016 | Q3 2016 | Y/Y Change | Q/Q Change |
|--------------------------|---------|---------|---------|------------|------------|
| Sales | 306.5 | 328.9 | 295.8 | 7.3% | 11.2% |
| Gross Margin | 43.1% | 43.5% | 44.6% | 40 bps | (110) bps |
| Operating Income | 100.6 | 107.7 | 94.3 | 7.1% | 14.2% |
| Operating Margin | 32.8% | 32.7% | 31.9% | (10) bps | 80 bps |

Factors Impacting Sales

| Y/Y Change | Q4 2015 | Q1 2016 | Q2 2016 | Q3 2016 | Q4 2016 |
|------------|---------|---------|---------|---------|---------|
| Volume | 1.7% | (3.9)% | (2.1)% | 5.8% | 6.2% |
| Price | (2.6)% | (1.9)% | (2.5)% | (1.9)% | 1.4% |
| Currency | (3.3)% | (1.4)% | 0.8% | (0.2)% | (0.3)% |
| Total | (4.2)% | (7.2)% | (3.8)% | 3.7% | 7.3% |

Note: The table above has been revised to include the effects of mix on FCC catalyst average in "Price" rather than "Volume". See appendix for more detail.

Updated metrics from data originally published on February 8, 2017. The update reflects a change in the treatment of revenues from non-core services and raw material sales. Such non-core items are now classified as volume in order to represent a more accurate assessment of the effect of price on Catalyst business revenues.

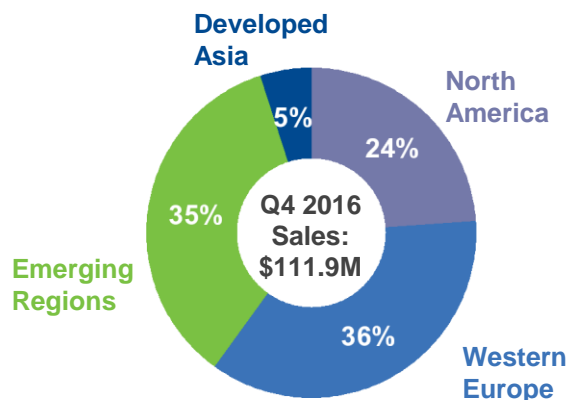


- Sales up 3% YoY excluding the exited product lines, down 5% as reported
- Operating margin up 430 bps YoY driven by exited product lines
- Volumes up 4% sequentially driven by Asia and North America
- Regions (current business):
 - North America as expected
 - EMEA as expected
 - Asia Pacific improving
 - Latin America improving

| (in millions of dollars) | Q4 2015 | Q4 2016 | Q3 2016 | Y/Y Change | Q/Q Change |
|--------------------------|---------|---------|---------|------------|------------|
| Sales | 118.3 | 111.9 | 108.7 | (5.4)% | 2.9% |
| Gross Margin | 40.0% | 40.6% | 37.8% | 60 bps | 280 bps |
| Operating Income | 25.6 | 29.0 | 26.4 | 13.3% | 9.8% |
| Operating Margin | 21.6% | 25.9% | 24.3% | 430 bps | 160 bps |

Factors Impacting Sales

| Y/Y Change | Q4 2015 | Q1 2016 | Q2 2016 | Q3 2016 | Q4 2016 |
|-----------------|-------------|----------------|---------------|---------------|---------------|
| Volume | 9.8% | (8.1)% | (0.5)% | 2.9% | 3.0% |
| Price | (0.2)% | 0.7% | 0.1% | (0.1)% | (0.3)% |
| Currency | (9.4)% | (4.4)% | 0.2% | (0.9)% | — |
| Exited products | | | (4.7)% | (6.5)% | (8.1)% |
| Total | 0.2% | (11.8)% | (4.9)% | (4.6)% | (5.4)% |



| (in millions of dollars except EPS) | Q4 2015 | Q4 2016 | Y/Y Change | Q3 2016 | Q/Q Change |
|---|------------|------------|------------|------------|---------------|
| Net Sales | 424.8 | 440.8 | 3.8% | 404.5 | 9.0% |
| Adjusted Gross Margin | 42.2% | 42.8% | 60 bps | 42.8% | — bps |
| Adjusted EBIT | 107.4 | 118.9 | 10.7% | 102.7 | 15.8% |
| Adjusted EBIT Margin | 25.3% | 27.0% | 170 bps | 25.4% | 160 bps |
| Adjusted EBITDA Margin | 31.0% | 33.0% | 200 bps | 32.1% | 90 bps |
| Adjusted EBIT ROIC | 24.4% | 24.3% | (10) bps | 23.3% | 100 bps |
| Diluted EPS from continuing operations | 0.39 | 0.18 | (53.8)% | 0.58 | (69.0)% |
| Adjusted EPS | 0.72 | 0.95 | 31.9% | 0.80 | 18.8% |

Sales Growth YoY & QoQ; Strong Margins; Good Growth in Earnings

*Definitions of non-GAAP financial terms and reconciliations to the closest GAAP term are provided in the Appendix

| (in millions of dollars except EPS) | FY 2015 | FY 2016 | Y/Y Change |
|---|---------|---------|------------|
| Net Sales | 1,628.2 | 1,598.6 | (1.8)% |
| Adjusted Gross Margin | 41.2% | 43.1% | 190 bps |
| Adjusted EBIT | 345.8 | 400.3 | 15.8% |
| Adjusted EBIT Margin | 21.2% | 25.0% | 380 bps |
| Adjusted EBITDA Margin | 27.3% | 31.3% | 400 bps |
| Adjusted EBIT ROIC | 24.4% | 24.3% | (10) bps |
| Diluted EPS from continuing operations | 1.71 | 1.45 | (15.2)% |
| Adjusted EPS | 2.18 | 3.10 | 42.2% |

Strong Margins; Good Growth in Earnings

*Definitions of non-GAAP financial terms and reconciliations to the closest GAAP term are provided in the Appendix

| (in millions of dollars except EPS) | 2017 Outlook | Framework/Drivers |
|-------------------------------------|-----------------|---|
| Sales Growth | 3%-6% growth | 1.5X GDP plus pricing |
| Adjusted EBIT | \$415 - \$440 | Sales growth, productivity |
| Adjusted EBITDA | \$525 - \$550 | Sales growth, productivity |
| Adjusted EPS | \$3.30 - \$3.55 | \$1.10* Per share benefit calculated at Grace's cash tax rate |
| Adjusted EPS + tax attributes | \$4.40 - \$4.65 | |
| Adjusted Gross Margin | 42% - 43% | Value pricing, productivity |
| Adjusted FCF | \$265 - \$275 | Tight working capital management |
| Capital Expenditures | ~\$150 - \$160 | Disciplined investment timed to market needs |
| Adjusted EBIT ROIC | 25% - 26% | Earnings growth, disciplined capital allocation |
| Interest Expense | ~\$79 | About ~\$70 in cash payments vs. amortization |
| Adjusted Effective Tax Rate | 33% - 34% | Benefit to cash tax rate from 2016 planning strategy |
| Adjusted Cash Tax Rate | 8% - 10% | |

Notes:

- 2017 Share count ~68 million
- 2017 Outlook assumes an average 1.05 EUR/USD exchange rate for the year. Every one cent move in the Euro = ~\$1.3 million annualized Adj. EBIT
- Definitions of non-GAAP financial terms and reconciliations to the closest GAAP term are provided in the Appendix
- * \$1.10 is the per share value of the mid-point of Grace's tax attributes expected to be utilized in 2017

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Non-GAAP Financial Terms

Adjusted EBIT means income from continuing operations attributable to W. R. Grace & Co. shareholders adjusted for interest income and expense; income taxes; costs related to Chapter 11, and legacy product and environmental; restructuring and repositioning expenses and asset impairments; pension costs other than service and interest costs, expected returns on plan assets, and amortization of prior service costs/credits; income and expense items related to divested businesses, product lines, and certain other investments; gains and losses on sales of businesses, product lines, and certain other investments; third-party acquisition-related costs and the amortization of acquired inventory fair value adjustment; and certain other unusual or infrequent items that are not representative of underlying trends.

Adjusted EBITDA means Adjusted EBIT adjusted for depreciation and amortization.

Adjusted Free Cash Flow means net cash provided by or used for operating activities from continuing operations minus capital expenditures plus cash flows related to Chapter 11, and legacy product and environmental; cash paid for restructuring and repositioning; capital expenditures related to repositioning; cash paid for third-party acquisition-related costs; and accelerated payments under defined benefit pension arrangements.

Adjusted Earnings Per Share (EPS) means diluted EPS from continuing operations adjusted for costs related to Chapter 11, and legacy product and environmental; restructuring and repositioning expenses and asset impairments; pension costs other than service and interest costs, expected returns on plan assets, and amortization of prior service costs/credits; income and expense items related to divested businesses, product lines, and certain other investments; gains and losses on sales of businesses, product lines, and certain other investments; third-party acquisition-related costs and the amortization of acquired inventory fair value adjustment; certain other unusual or infrequent items that are not representative of underlying trends; and certain discrete tax items.

Adjusted EBIT Return On Invested Capital means Adjusted EBIT (on a trailing four quarters basis) divided by the sum of net working capital, properties and equipment and certain other assets and liabilities.

Adjusted Gross Margin means gross margin adjusted for pension-related costs included in cost of goods sold and the amortization of acquired inventory fair value adjustment.

Adjusted EBIT, Adjusted EBITDA, Adjusted EBIT Return On Invested Capital, Adjusted Gross Margin, Adjusted EPS and Adjusted Free Cash Flow do not purport to represent income or liquidity measures as defined under U.S. GAAP, and should not be considered as alternatives to such measures as an indicator of Grace's performance or liquidity.

Grace uses Adjusted EBIT as a performance measure in significant business decisions and in determining certain incentive compensation. Grace uses Adjusted EBIT as a performance measure because it provides improved period-to-period comparability for decision making and compensation purposes, and because it better measures the ongoing earnings results of its strategic and operating decisions by excluding the earnings effects of the Chapter 11 proceedings, legacy product and environmental matters, restructuring and repositioning activities, divested businesses, and other items discussed above. Grace uses Adjusted EBITDA, Adjusted EBIT Return On Invested Capital, Adjusted Gross Margin, and Adjusted EPS as performance measures and may use these measures in determining certain incentive compensation. Grace uses Adjusted Free Cash Flow as a liquidity measure to evaluate its ability to generate cash to support its ongoing business operations, to invest in its businesses, and to provide a return of capital to shareholders. Grace also uses Adjusted Free Cash Flow as a performance measure in determining certain incentive compensation.

These measures are provided to investors and others to improve the period-to-period comparability and peer-to-peer comparability of Grace's financial results, and to ensure that investors and others understand the information Grace uses to evaluate the performance of its businesses. They distinguish the operating results of Grace's current business base from the costs of Grace's Chapter 11 proceedings, legacy product and environmental matters, restructuring and repositioning activities, divested businesses, and other items discussed above. These measures may have material limitations due to the exclusion or inclusion of amounts that are included or excluded, respectively, in the most directly comparable measures calculated and presented in accordance with U.S. GAAP and thus investors and others should review carefully the financial results calculated in accordance with U.S. GAAP.

| Adjusted EBIT by Operating Segment: | 2015 | Q1 2015 | Q2 2015 | Q3 2015 | Q4 2015 | Q1 2016 | Q2 2016 | Q3 2016 | Q4 2016 | 2016 |
|---|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| Catalysts Technologies segment operating income | \$ 347.3 | \$ 73.7 | \$ 86.6 | \$ 86.4 | \$ 100.6 | \$ 78.3 | \$ 87.5 | \$ 94.3 | \$ 107.7 | \$ 367.8 |
| Materials Technologies segment operating income | 96.9 | 23.9 | 23.8 | 23.6 | 25.6 | 20.6 | 28.0 | 26.4 | 29.0 | 104.0 |
| Corporate costs | (79.9) | (20.8) | (23.0) | (22.3) | (13.8) | (13.2) | (16.3) | (14.9) | (15.0) | (59.4) |
| Gain on curtailment of postretirement plans related to current businesses | 1.9 | — | — | 1.9 | — | — | — | — | 0.2 | 0.2 |
| Certain pension costs(B) | (20.4) | (5.3) | (5.0) | (5.1) | (5.0) | (3.1) | (3.1) | (3.1) | (3.0) | (12.3) |
| Adjusted EBIT | 345.8 | 71.5 | 82.4 | 84.5 | 107.4 | 82.6 | 96.1 | 102.7 | 118.9 | 400.3 |
| (Costs) benefit related to Chapter 11, and legacy product and environmental, net | (6.1) | 9.6 | (2.8) | (6.2) | (6.7) | (4.4) | (6.7) | (13.1) | (11.2) | (35.4) |
| Restructuring and repositioning expenses | (20.4) | (5.5) | (4.2) | (5.2) | (5.5) | (13.6) | (9.4) | (5.6) | (10.0) | (38.6) |
| Third-party acquisition-related costs | — | — | — | — | — | — | (2.5) | — | — | (2.5) |
| Amortization of acquired inventory fair value adjustment | — | — | — | — | — | — | — | (4.1) | (3.9) | (8.0) |
| Pension MTM adjustment and other related costs, net | (30.5) | (4.2) | — | — | (26.3) | 0.2 | 0.7 | 0.2 | (61.4) | (60.3) |
| Gain on sale of product line | — | — | — | — | — | — | 0.7 | — | 1.0 | 1.7 |
| Income and expense items related to divested businesses | 1.5 | 0.8 | (0.3) | 0.8 | 0.2 | (0.3) | 0.1 | (0.1) | 0.4 | 0.1 |
| Gain on curtailment of postretirement plans related to divested businesses | 2.6 | — | — | 2.6 | — | — | — | — | 0.3 | 0.3 |
| Loss on early extinguishment of debt | — | — | — | — | — | (11.1) | — | — | — | (11.1) |
| Interest expense, net | (99.1) | (24.5) | (24.6) | (25.1) | (24.9) | (21.8) | (19.4) | (19.4) | (19.9) | (80.5) |
| Provision for income taxes | (69.8) | (17.5) | (17.9) | (17.7) | (16.7) | (21.2) | (21.5) | (19.4) | (1.4) | (63.5) |
| Income from continuing operations attributable to W. R. Grace & Co. shareholders | \$ 124.0 | \$ 30.2 | \$ 32.6 | \$ 33.7 | \$ 27.5 | \$ 10.4 | \$ 38.1 | \$ 41.2 | \$ 12.8 | \$ 102.5 |

| | Q4 2015 | Q4 2016 |
|---|----------------|----------------|
| Adjusted Free Cash Flow: | | |
| Net cash provided by (used for) operating activities | (189.8) | 267.5 |
| Capital expenditures | (118.8) | (116.9) |
| Free Cash Flow | (308.6) | 150.6 |
| Cash paid for Chapter 11, and legacy product and environmental | 507.4 | 24.6 |
| Cash paid for repositioning | 38.6 | 35.5 |
| Cash paid for restructuring | 5.6 | 16.0 |
| Capital expenditures related to repositioning | 7.5 | 2.0 |
| Cash paid for third-party acquisition-related costs | — | 2.3 |
| Cash paid for taxes related to repositioning | 6.1 | 5.0 |
| Adjusted Free Cash Flow | 256.6 | 236.0 |
| Calculation of Adjusted EBIT Return On Invested Capital (trailing four quarters): | Q4 2015 | Q4 2016 |
| Adjusted EBIT | 345.8 | 400.3 |
| Invested Capital: | | |
| Trade accounts receivable | 254.5 | 273.9 |
| Inventories | 198.8 | 228.0 |
| Accounts payable | (157.8) | (195.4) |
| | 295.5 | 306.5 |
| Other current assets (excluding income taxes) | 43.2 | 32.0 |
| Properties and equipment, net | 621.7 | 729.6 |
| Goodwill | 336.5 | 394.2 |
| Technology and other intangible assets, net | 227.5 | 269.1 |
| Investment in unconsolidated affiliate | 103.2 | 117.6 |
| Other assets (excluding capitalized financing fees) | 31.8 | 34.9 |
| Other current liabilities (excluding income taxes, legacy environmental matters, accrued interest, and restructuring) | (158.5) | (144.4) |
| Other liabilities (excluding legacy environmental matters) | (81.4) | (89.3) |
| Total invested capital | 1,419.5 | 1,650.2 |
| Adjusted EBIT Return On Invested Capital | 24.4% | 24.3% |

Previous Methodology

| Y/Y Change | Q1 2015 | Q2 2015 | Q3 2015 | Q4 2015 |
|------------|---------------|---------------|----------------|---------------|
| Volume | 3.7% | (1.5)% | (8.2)% | 0.2% |
| Price | 0.2% | (0.1)% | (0.4)% | (1.1)% |
| Currency | (5.1)% | (6.0)% | (4.8)% | (3.3)% |
| Total | (1.2)% | (7.6)% | (13.4)% | (4.2)% |

| Y/Y Change | Q1 2016 | Q2 2016 | Q3 2016 | Q4 2016 |
|------------|---------------|---------------|-------------|-------------|
| Volume | (5.0)% | (3.7)% | 4.3% | 7.7% |
| Price | (0.8)% | (0.9)% | (0.4)% | (0.1)% |
| Currency | (1.4)% | 0.8% | (0.2)% | (0.3)% |
| Total | (7.2)% | (3.8)% | 3.7% | 7.3% |

New Methodology

| Y/Y Change | Q1 2015 | Q2 2015 | Q3 2015 | Q4 2015 |
|------------|---------------|---------------|----------------|---------------|
| Volume | 3.6% | (2.2)% | (9.2)% | 1.7% |
| Price | 0.3% | 0.6% | 0.6% | (2.6)% |
| Currency | (5.1)% | (6.0)% | (4.8)% | (3.3)% |
| Total | (1.2)% | (7.6)% | (13.4)% | (4.2)% |

| Y/Y Change | Q1 2016 | Q2 2016 | Q3 2016 | Q4 2016 |
|------------|---------------|---------------|-------------|-------------|
| Volume | (3.9)% | (2.1)% | 5.8% | 6.2% |
| Price | (1.9)% | (2.5)% | (1.9)% | 1.4% |
| Currency | (1.4)% | 0.8% | (0.2)% | (0.3)% |
| Total | (7.2)% | (3.8)% | 3.7% | 7.3% |

Reason for Methodology Change - Mix is an important factor in determining average price in the FCC catalyst business. Mix is included in "Price" in the new methodology. Mix was included in "Volume" in the previous methodology.

Updated metrics from data originally published on February 8, 2017. The update reflects a change in the treatment of revenues from non-core services and raw material sales. Such non-core items are now classified as volume in order to represent a more accurate assessment of the effect of price on Catalyst business revenues.