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

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of Earliest Event Reported):

February 19, 2007

Air Products and Chemicals, Inc.

(Exact name of registrant as specified in its charter)

Delaware

1-4534

23-1274455

(State or other jurisdiction
of incorporation)

(Commission
File Number)

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

7201 Hamilton Boulevard, Allentown, Pennsylvania

18195-1501

(Address of principal executive offices)

(Zip Code)

Registrant's telephone number, including area code:

610 481-4911

Not Applicable

Former name or former address, if changed since last report

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 7.01 Regulation FD Disclosure.

On February 19, 2007, the company published the Quarter-to-Date Sales Update, including consolidated sales and product volumes for January 2007 on its website at <http://www.airproducts.com/Invest/financialnews/current.htm>. A copy is attached as Exhibit 99.1 to this Form 8-K. The Quarter-to-Date Sales Update is being furnished; it is not deemed to be filed.

Item 9.01 Financial Statements and Exhibits.

(c) Exhibits

99.1 Quarter-to-Date Sales Update dated February 19, 2007.

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 hereunto duly authorized.

Air Products and Chemicals, Inc.

February 20, 2007

By: *Paul E. Huck*

Name: Paul E. Huck

Title: Vice President and Chief Financial Officer

Exhibit Index

<u>Exhibit No.</u>	<u>Description</u>
99.1	Quarter-to-Date Sales Update dated February 19, 2007.

Quarter-to-Date
Sales Update

February 19, 2007

	January 2007 % Change vs. Prior Year	Commentary
Consolidated Sales	11%	Underlying growth of +16% on strength across most segments (includes lower Equipment & Energy and Chemicals segments). Currency +2%, Natural gas (7%). Acquisitions and divestitures net for 0% growth.
Merchant Gases	20%	Sales increased on solid demand and improved pricing in most major regions. North America, Europe & Asia all up double digits. Excluding North America LHY, sales up 19.5%.
Tonnage Gases	5%	Sales increased due to new hydrogen plants brought onstream during 2006. Lower natural gas pricing impacted sales growth by ~ (28%).
Electronics and Performance Materials	27%	Sales increased significantly in both businesses driven by underlying industry growth. Electronics sales benefited from the loading of investments made throughout 2006 and particularly strong Equipment orders. Performance Materials sales benefited from strong Epoxy Additives demand and the Tomah acquisition.
Healthcare	19%	Sales increased primarily due to the UK respiratory care contract and underlying strength in our Spanish homecare business.

Note: We are providing this information at the request of financial analysts and investors who have indicated that it would assist them in understanding recent business trends at Air Products. This information is based on current estimates and data that we believe in our judgment to be reliable. Please keep in mind that sales are not the only factors that determine future financial performance. Many other factors including raw material, energy, distribution and overhead costs and other price changes also influence results.