
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):

September 24, 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 September 24, 2007, the company published the Quarter-to-Date Sales Update, including consolidated sales and product volumes for July and August 2007 on its website at <http://www.airproducts.com/Invest/financialnews/current.htm>. A copy is attached at Exhibit 99.1 to this Form 8-K. The Quarter-to-Date Sales Update is being furnished, it is not deemed to be filed.

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.

September 24, 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 September 24, 2007

Investor Information**Sales Update****September 24, 2007****(% change versus PY)**

	July & August 2007	Commentary
Consolidated Sales	15%	Underlying growth of +11% on increases across most business segments (Equipment & Energy segment flat). Currency +2%, acquisitions +2% .
Merchant Gases	20%	Sales increased on strong demand in Asia and improved pricing across all regions. Currency +4%, acquisitions +5%.
Tonnage Gases	20%	Sales increased mainly due to new plants and higher loading. Currency +2%, acquisitions +2% and higher natural gas pricing +1%.
Electronics and Performance Materials	8%	Sales growth remains strong driven by underlying industry growth. As expected, strong Electronics Specialty Materials and Tonnage sales were partially offset by weaker Equipment sales. Performance Materials has benefited from growth in all major product lines. Currency +2%.
Healthcare	6%	Sales increased due to underlying strength in our European homecare business and currency +4%.

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.