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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 22, 2008

**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 22, 2008, the company published the Quarter-to-Date Sales Update, including consolidated sales and product volumes for January 2008 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 22, 2008.

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**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 25, 2008

By: *Paul E. Huck*

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*Name: Paul E. Huck*

*Title: Senior Vice President and Chief Financial Officer*

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Exhibit Index

<u>Exhibit No.</u>	<u>Description</u>
99.1	Quarter-to-Date Sales Update dated February 22, 2008.

Quarter-to-Date  
Sales Update

February 22, 2008

<b>(% change versus PY)</b>	<b>January 2008</b>	<b>Commentary</b>
<b>Consolidated Sales</b>	13%	Solid underlying growth of 6% continues, driven by Tonnage and Electronics & Performance Materials segments partially offset by lower Equipment & Energy segment sales (2%). Currency +4%, acquisitions +3% and natural gas pass-thru +2%.
<b>Merchant Gases</b>	13%	Growth in North America and Asia with Europe soft. Continued positive pricing trends. Argon and helium availability continued to constrain volume growth. Lower equipment activity reduced underlying growth by (5%). Currency +7% and acquisitions +6%.
<b>Tonnage Gases</b>	24%	Strong sales growth driven by higher volumes across all products. Currency +4%, acquisitions +2% and higher natural gas pass-thru +6%.
<b>Electronics and Performance Materials</b>	11%	Strong sales growth driven by underlying industry growth across most product lines. Electronics growth was driven by high industry utilizations, the ramping of tonnage facilities and strong equipment sales. Performance Materials growth was driven by higher volumes in all regions. Currency +2%.
<b>Healthcare</b>	7%	Sales increased 7% due to currency. Strength in the Europe homecare business was largely offset by lower US revenues.

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.