

AIR PRODUCTS & CHEMICALS INC /DE/

Form S-8

March 16, 2007

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As filed with the Securities and Exchange Commission on March 16, 2007

Registration No. _____

**SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

**FORM S-8
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933
AIR PRODUCTS AND CHEMICALS, INC.**

(Exact Name of Registrant as Specified in Its Charter)

Delaware

(State or Other Jurisdiction of Incorporation or Organization)

23-1274455

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

7201 Hamilton Boulevard, Allentown, Pennsylvania 18195-1501

(Address of Principal Executive Offices) (Zip Code)

The Air Products Group Limited Share Incentive Plan

(Full Title of the Plan)

W. Douglas Brown, Vice President, General Counsel and Secretary
Air Products and Chemicals, Inc., 7201 Hamilton Boulevard, Allentown, PA 18195-1501

(Name and Address of Agent for Service)

610-481-4911

(Telephone Number, Including Area Code, of Agent for Service)

CALCULATION OF REGISTRATION FEE

| Titles of securities to be registered | Amount to be registered | Proposed maximum offering price per share | Proposed maximum aggregate offering price | Amount of registration fee |
|--|----------------------------|--|--|-------------------------------|
| Common Stock, par value \$1 | 36,000 | \$ 74.88 | \$ 2,695,680 | \$82.76 ⁽¹⁾ |

(1) The registration fee with respect to these shares has been computed in accordance with paragraphs

(c) and (h) of
Rule 457, based
upon the
average of the
reported high
and low sales
prices of shares
of Common
Stock on 9
March 2007
(i.e., \$74.88 per
share).

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EX-23: CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

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Air Products and Chemicals, Inc. (the Company), by the filing of this Registration Statement, hereby registers additional shares of common stock of the Company, for distribution pursuant to the Air Products Group Limited Share Incentive Plan (the Plan). These are securities of the same class as the securities registered on Form S-8, Registration Statement No. 333-111793 for distribution pursuant to the Plan. Accordingly, the contents of Registration Statement No. 333-111793 are incorporated herein by reference. The Company's report on Form 10-K for the year ended 30 September 2006 and the Form 10-Q for the period ended 31 December 2006 are also incorporated herein by reference.

EXHIBITS

4. Rights Agreement, dated as of 19 March 1998, between the Company and First Chicago Trust Company of New York. (Filed as Exhibit 1 to the Company's Form 8-A Registration Statement dated 19 March 1998, as amended by Form 8-A/A dated 16 July 1998.)

23. Consent of Independent Registered Public Accounting Firm

24. Power of Attorney.

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SIGNATURES

The Registrant. Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Allentown, Commonwealth of Pennsylvania, on this 16th day of March 2007.

AIR PRODUCTS AND CHEMICALS, INC.
(Registrant)

By: /s/ W. Douglas Brown
 W. Douglas Brown*
 Vice President, General Counsel and
 Secretary

* W. Douglas Brown, Vice President, General Counsel and Secretary, by signing his name hereto, signs this registration statement on behalf of the registrant and, for each of the persons indicated by asterisk on pages 3 and 4 hereof, pursuant to a power of attorney duly executed by such persons which is filed with the Securities and Exchange Commission herewith.

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Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

| Signature | Title | Date |
|-----------------------|---|---------------|
| /s/ John P. Jones III | Director, Chairman of the Board and Chief Executive Officer (Principal Executive Officer) | 16 March 2007 |
| John P. Jones III | | |
| /s/ Paul E. Huck | Vice President and Chief Financial Officer (Principal Financial Officer and Accounting Officer) | 16 March 2007 |
| Paul E. Huck | | |
| * | Director | 16 March 2007 |
| Mario L. Baeza | | |
| * | Director | 16 March 2007 |
| William L. Davis, III | | |
| * | Director | 16 March 2007 |
| Michael J. Donahue | | |
| * | Director | 16 March 2007 |
| Ursula O. Fairbairn | | |
| * | Director | 16 March 2007 |
| W. Douglas Ford | | |
| * | Director | 16 March 2007 |
| Edward E. Hagenlocker | | |
| * | Director | 16 March 2007 |
| Evert Henkes | | |

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| Signature | Title | Date |
|---------------------|--------------|---------------|
| * | Director | 16 March 2007 |
| Margaret G. McGlynn | | |
| * | Director | 16 March 2007 |
| Charles H. Noski | | |
| * | Director | 16 March 2007 |
| Lawrence S. Smith | | |

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| 4. | Rights Agreement, dated as of 19 March 1998, between the Company and First Chicago Trust Company of New York. (Filed as Exhibit 1 to the Company's Form 8-A Registration Statement dated 19 March 1998, as amended by Form 8-A/A dated 16 July 1998.) | N/A |
| 23. | Consent of Independent Registered Public Accounting Firm | 6 |
| 24. | Power of Attorney | 7 |
| | No opinion of counsel is being filed because the Common Stock to be distributed in connection with the Plan will consist exclusively of previously issued shares that are presently held by the registrant as treasury shares and will not constitute original issuance shares; further, no opinion is being furnished with respect to ERISA compliance because the Plan covered by the registration statement is not subject to the requirements of ERISA. | 5 |