

JONES JOHN P III  
 Form 4  
 August 23, 2007

**FORM 4**

**UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549**

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**JONES JOHN P III**

2. Issuer Name and Ticker or Trading Symbol  
**AIR PRODUCTS & CHEMICALS INC /DE/ [APD]**

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
**7201 HAMILTON BOULEVARD**  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
**08/21/2007**

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
**Chairman and CEO**

**ALLENTOWN, PA 18195**

(City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
|                                 |                                      |  | Code                           | V   | Amount or Price   |  |   |
| Common Stock                    | 08/21/2007                           |  | M                              |   | 5,000 A \$ 29.47  | 227,626.89   | D   |
| Common Stock                    | 08/21/2007                           |  | S                              |   | 5,000 D \$ 86.51  | 222,626.89   | D   |
| Common Stock                    | 08/22/2007                           |  | M                              |   | 10,000 A \$ 29.47   | 232,626.89   | D   |
| Common Stock                    | 08/22/2007                           |  | S                              |   | 10,000 D \$ 87.8  | 222,626.89   | D   |
| Common Stock                    |                                      |  |                                |   |   | 6,510.99   | I By RSP  |

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| 1999 Rights <sup>(1)</sup>                 | <u>(1)</u>   | 08/22/2007                           |  | J                              | 10,000  | 08/08/1988 <sup>(2)</sup> 10/02/2008                     | Common Stock  | 10,000                     |
| 1999 Stock Options <sup>(3)</sup>          | \$ 29.47   | 08/21/2007                           |  | M                              | 5,000   | 08/08/1988 <sup>(4)</sup> 10/02/2008                     | Common Stock  | 5,000                      |
| 1999 Stock Options <sup>(3)</sup>          | \$ 29.47   | 08/22/2007                           |  | M                              | 10,000  | 08/08/1988 <sup>(4)</sup> 10/02/2008                     | Common Stock  | 10,000                     |
| 1999 Rights <sup>(1)</sup>                 | <u>(1)</u>   | 08/21/2007                           |  | J                              | 5,000   | 08/08/1988 <sup>(2)</sup> 10/02/2008                     | Common Stock  | 5,000                      |

## Reporting Owners

**Reporting Owner Name / Address**

**Relationships**

Director    10% Owner    Officer    Other

JONES JOHN P III  
7201 HAMILTON BOULEVARD  
ALLENTOWN, PA 18195

Chairman and CEO

## Signatures

By: Linda M. Svoboda as Attorney  
in Fact

08/23/2007

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) These Rights were cancelled upon the exercise of the Options described herein.
- (2) Rights have exercise dates only during a 30 day period following a change in control of the Company (as defined in the LTIP).
- (3) Employee Stock Options (Options) granted under the issuer's Long-Term Incentive Plan (LTIP). Exercise of these Options cancels the related Rights described herein on a one-for-one basis.
- (4) One-third became exercisable 10/1/99; one-third became exercisable 10/1/00; and one-third became exercisable 10/1/01.

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