

AIR PRODUCTS & CHEMICALS INC /DE/
 Form 4
 May 23, 2005

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 *
HUCK PAUL E

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)
05/19/2005

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
V.P. CFO

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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
| | | | Code | V Amount (A) or (D) Price | | | |
| Common Stock | 05/19/2005 | | M | 10,000 A \$ 26.03 | 30,060 | D | |
| Common Stock | 05/19/2005 | | S | 10,000 D \$ 60.77 | 20,060 | D | |
| Common Stock | 05/19/2005 ⁽¹⁾ | | J | 65.21 A \$ 0 | 5,891.16 | I | By RSSOP ⁽²⁾ |
| Common Stock | 05/19/2005 ⁽¹⁾ | | J | 102.41 ⁽³⁾ A \$ 0 | 10,122.063 | I | By Spouse ⁽⁴⁾ |

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 |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| 1996 Rights ⁽⁵⁾ | <u>(5)</u> | 05/19/2005 | | J | 10,000 | 08/08/1988 ⁽⁶⁾ 10/03/2005 | Common Stock | 10,000 |
| 1996 Stock Options ⁽⁷⁾ | \$ 26.03 | 05/19/2005 | | M | 10,000 | 08/08/1988 ⁽⁸⁾ 10/03/2005 | Common Stock | 10,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|----------|-------|
| | Director | 10% Owner | Officer | Other |
| HUCK PAUL E 7201 HAMILTON BOULEVARD ALLENTOWN, PA 18195 | | | V.P. CFO | |

Signatures

By: Linda M. Svoboda as Attorney in Fact
Date: 05/23/2005

**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) Transactions not required to be reported since last filing.
- (2) Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings and Stock Ownership Plan.
- (3) Shares acquired with cash dividends under the issuer's Dividend Reinvestment and Direct Stock Purchase and Sale Plan.
- (4) Shares owned by spouse as to which the reporting person disclaims beneficial ownership,

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- (5) These Rights were cancelled upon the exercise of the Options described herein.
- (6) Rights have exercise dates only during a 30 day period following a change in control of the Company (as defined in the LTIP).
- (7) 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.
- (8) One-third became exercisable 10/2/96; one-third became exercisable 10/2/97; and one-third became exercisable 10/2/98.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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