

Hilton Michael F
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 *
Hilton Michael F

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)
08/22/2007

____ Director
 Officer (give title below)
____ 10% Owner
____ Other (specify below)
V.P. and G.M.

ALLENTOWN, PA 18195

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

(City) (State) (Zip)

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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | Code | V | Amount (A) or (D) Price | | |
| Common Stock | 08/22/2007 | | M | | 2,000 A \$ 45.53 | 11,364.64 | D |
| Common Stock | 08/22/2007 | | S | | 2,000 D \$ 88.48 | 9,364.64 | D |
| Common Stock | 08/22/2007 ⁽¹⁾ | | J | | 0.62 ⁽²⁾ A \$ 0 | 9,365.26 | D |
| Common Stock | 08/22/2007 ⁽¹⁾ | | J | | 38.14 A \$ 0 | 3,140.39 | I By RSP ⁽³⁾ |

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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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 (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 |
|--|--|--------------------------------------|--|--------------------------------|--|--|---|----------------------------|
| 2004 Stock Options <u>(4)</u> | \$ 45.53 | 08/22/2007 | | M | 2,000 | 08/08/1988 ⁽⁵⁾ 10/02/2013 | Common Stock | 2,000 |
| Rights 2004 <u>(6)</u> | <u>(6)</u> | 08/22/2007 | | J | 2,000 | 08/08/1988 ⁽⁷⁾ 10/02/2013 | Common Stock | 2,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------------|-------|
| | Director | 10% Owner | Officer | Other |
| Hilton Michael F 7201 HAMILTON BOULEVARD ALLENTOWN, PA 18195 | | | V.P. and G.M. | |

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) Transactions not required to be reported since last filing.
- (2) Shares acquired with cash dividends under the issuer's Dividend Reinvestment and Direct Stock Purchase and Sale Plan.
- (3) Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings Plan.

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- (4) 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.
- (5) One-third became exercisable 10/1/04; one-third became exercisable 10/1/05; and one-third become exercisable 10/1/06.
- (6) These Rights were cancelled upon the exercise of the Options described herein.
- (7) Rights have exercise dates only during a 30 day period following a change in control of the Company (as defined in the LTIP).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.