FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPRO | OVAL |
|------------------------|-----------|
| OMB Number: | 3235-0287 |
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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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person* SMITH LAWRENCE S | | | | | | | 2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD] | | | | | | | | all app | onship of Reportir Il applicable) Director | | on(s) to Is | |
|--|--|--|---|--|---|---|---|-----|--|------|--------------------|---|--|---------------------|---------|--|---|--|--|
| I | | | | | | 3. Date of Earliest Transaction (Month/Day/Year) 10/23/2012 | | | | | | | | | | Officer (give title below) | | Other (specify below) | |
| (Street) ALLENT (City) | ALLENTOWN PA 18195 | | | | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | Form | al or Joint/Group Filing (Check Applicable orm filed by One Reporting Person orm filed by More than One Reporting erson | | | |
| | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | | | | | | | | | | | |
| 1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day) | | | | | | Execution Date, | | | 3. Transaction Code (Instr. 8) 4. Securities Disposed Of | | | | | and 5) Secu Bene | | icially d Following | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | | | | | | Code | v | Amount | (A) oi (D) | Price | | Transa | action(s) 3 and 4) | | | (mour 4) |
| Common Stock 10/23/20 | | | | | 2012 | 012 | | | P | | 5,000 | A | \$77. | 3564 | | 9,850 |] | D | |
| | 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) | | | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) | | | | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4) | Ow For Dir or I (I) (| 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | | Code | v | (A) | (D) | Date Exercis | able | Expiration Date | Title | Amount or Number of Shares | | | | | | |

Explanation of Responses:

Linda M. Svoboda as Attorney 10/24/2012

in Fact

** Signature of Reporting Person

Date

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

- * 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).

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

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 Number.