SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden

0.5

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	Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. <i>See</i> Instruction 1(b).
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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,	-						
1. Name and Address of Reporting Person* <u>SMITH LAWRENCE S</u>				2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]							ationship of Reportin (all applicable) Director	Dwner			
(Last) 7201 HAMILTO	(First) N BOULEVARD	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 01/28/2010							Officer (give title below)	below)	(specify)		
(Street)					4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line)				
ALLENTOWN	PA	18195								X					
(City)	(State)	(Zip)									Form filed by Mo Person	re than One Repo	orting		
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned														
Date			2. Transact Date (Month/Day	Execution Date,		3. Transaction Code (Instr. 8)		4. Securities A Disposed Of (5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)				

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned nuto calle M 10 0

(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. Transa Code (8)		of Expira		Expiration Dat	Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Phantom Stock	\$0 ⁽¹⁾	01/28/2010		Α		1,299		08/08/1988 ⁽²⁾	08/08/1988 ⁽²⁾	Common Stock	1,299	\$77.04	17,562.6855	D	

Explanation of Responses:

1. Not applicable to this security

2. These units are payable in the form of shares of common Stock equal in number to the units, at the time elected by the reporting person, which is generally after service on the issuer's Board of Directors ends. Units may be paid in a lump sum or up to ten installments as elected by the reporting person in advance.

Remarks:

Linda M. Svoboda as Attorney

<u>in Fact</u>

** Signature of Reporting Person Date

01/29/2010

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.