SEC	Form 4
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Instruction 1(b)

## FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL						
OMB Number: 3235-0287						
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

(City)	(State)	(Zip)	—	Form filed by More	han One Reporting Person		
(Street) ALLENTOWN	201 HAMILTON BOULEVARD rreet)		4. If Amendment, Date of Original Filed (Month/Day/Year)	Line)	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person		
(Last) 7201 HAMILTO			3. Date of Earliest Transaction (Month/Day/Year) 09/30/2011	201010)	5000)		
1. Name and Addres	AD C		2. Issuer Name and Ticker or Trading Symbol <u>AIR PRODUCTS &amp; CHEMICALS INC /DE/</u> [ APD ]	5. Relationship of Reporting F (Check all applicable) X Director Officer (give title below)	Person(s) to Issuer 10% Owner Other (specify below)		

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 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)		(1150.4)

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. Transa Code ( 8)		Derivativ Securitie Acquired or Dispos of (D) (Ins	Derivative Expiration Date Securities (Month/Day/Year) Acquired (A)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	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		Transaction(s) (Instr. 4)		
Phantom Stock <sup>(1)</sup>	<b>\$0.0000</b> <sup>(2)</sup>	09/30/2011		A		17.7004		08/08/1988 <sup>(3)</sup>	08/08/1988 <sup>(3)</sup>	Common Stock	17.7004	\$79	2,428.6066	D	

Explanation of Responses:

1. Phantom deferred stock units (Units) acquired under the Air Products Stock Account of the issuer's Deferred Compensation Program for Directors, of the Company's Long-Term Incentive Plan (the Plan). 2. Not applicable to this security.

3. 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.

Linda M. Svoboda as Attorney in Fact 09/30/2011

Date

\*\* Signature of Reporting Person

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.