FORM 4

# **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

gton, 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

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* <u>HAGENLOCKER EDWARD E</u>				4	2. Issuer Name <b>and</b> Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ APD 1								ationship of k all applical Director		( )	n(s) to Issuer 10% Owner	
(Last) 7201 HA	`	First) BOULEVARD	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 09/30/2009								Officer (g below)	give title	Other (specify below)		ecify
(Street) ALLENT		A State)	18195 (Zip)		Line)						Form file	or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting Person					
		Т	able I - Non-D	eriva	tive S	ecuriti	es Ac	quired,	Dis	posed of	, or Ben	eficially	Owned				
Date			Transact te onth/Day		2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			5. Amount Securities Beneficiall Owned Fol	y   F	. Ownersh orm: Dire D) or Indir ) (Instr. 4)	ct In ect B	7. Nature of ndirect Beneficial Ownership	
							Code	v	Amount	(A) or (D)	Price	Reported Transactio (Instr. 3 an			(11	nstr. 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	Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)			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 Transaction(s)	Own For Dire 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) Exercisable Expiration Date Title of Shares														
Phantom Stock <sup>(1)</sup>	\$0 <sup>(2)</sup>	09/30/2009		A		46.3194	(	08/08/1988 <sup>(</sup>	3) 08	B/08/1988 <sup>(3)</sup>	Common Stock	46.3194	\$78.01	8,076.05	6	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.

## Remarks:

Linda M. Svoboda as Attorney

\*\* Signature of Reporting Person

in Fact

09/30/2009

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.