FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL	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

Name and Address of Reporting Person*     SMITH LAWRENCE S													(Check	ionship of Reporting Person( all applicable)  Director			(s) to Issuer		
(Last)	(First) (Middle)				[ APD ]  3. Date of Earliest Transaction (Month/Day/Year)								_ X	Officer (g below)			Other (sp		
7201 HAMILTON BOULEVARD					06/30/2010														
(Street) ALLENTOWN PA 18195					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv	Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person						
(City)	(	State)	(Zip)																3
			Table I - Non-l	Deriva	ative \$	Securiti	es A	cqu	iired, D	isp	osed of	or Ben	efi	cially O	wned				
Date				. Transa ate Month/D		Execution if any	2A. Deemed Execution Dat if any (Month/Day/Ye				es Acquired (A) o Of (D) (Instr. 3, 4 a			5. Amount Securities Beneficially Following Reported		6. Own Form: I (D) or I (I) (Inst	Direct I ndirect I tr. 4)	7. Nature of ndirect Beneficial Ownership Instr. 4)	
									Code V		Amount	(A) or (D)	(A) or (D) Prid		Transaction(s) (Instr. 3 and 4)				(instr. 4)
			Table II - Do (e								sed of, o				ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			e and	7. Title an Securities Derivative (Instr. 3 a	s Un	derlying curity	8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Benefici Owned Followin Reported Transact	ve es ally ig d	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exer	cisable	Exp Dat	oiration te	Title	Nu	nount or Imber of lares		(Instr. 4)			
Phantom Stock <sup>(1)</sup>	\$0 <sup>(2)</sup>	06/30/2010		A		127.6592		08/08	8/1988 <sup>(3)</sup>	08/	08/1988 <sup>(3)</sup>	Common Stock	12	27.6592	\$0	17,788.	.8994	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

07/01/2010

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.