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

Filed

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

					tion 30(h) of the In					-	<u> </u>				
1. Name and Address of Reporting Person* SMITH LAWRENCE S					Name and Ticker				Chec	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
		,	[ APD	]						Director 10% Ow Officer (give title Other (s					
(Last)	(First)	(Middle)		<u> </u>						_	below)	below			
7201 HAMILTON BOULEVARD					of Earliest Transact 012	ion (Mo	nth/Da	ay/Year)							
(Street) ALLENTOWN	PA	18195		4. If Amendment, Date of Original Filed (Month/Day/Year)							6. 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)								Form med by Mor		rung reison			
		Table I - No	n-Deriv	ative S	ecurities Acqu	uired,	Disp	oosed of, o	r Bene	ficially C	Owned				
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
						Code V		Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
					curities Acqui lls, warrants, e			,		-	vned				

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)		5. Number Derivative Securities Acquired ( or Dispose of (D) (Inst 4 and 5)	(A) ed	6. Date Exerci Expiration Dat (Month/Day/Ye	e	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>	\$0.0000 <sup>(2)</sup>	06/29/2012		A		176.6044		08/08/1988 <sup>(3)</sup>	08/08/1988 <sup>(3)</sup>	Common Stock	176.6044	\$76.56	21,302.8822	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 07/02/2012 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.