FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, 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*  CARTER SUSAN K			<u> </u>	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/								heck	tionship of Reporting Person all applicable)					
				[	[ APD ]								X	Officer (give title below)		10% Own Other (spe below)		
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD				3. Date of Earliest Transaction (Month/Day/Year) 12/31/2016									below)			below)		
(Street)	OWN P.	A	18195	4	4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person							
(City)	(5	State)	(Zip)	-	Form filed by More than One Reporti							ng						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date				2A. Deemed Execution Date if any (Month/Day/Yea		, Transaction Disposed Code (Instr.		ities Acquired (A) or d Of (D) (Instr. 3, 4 an		nd 5) Securities Beneficial Owned Fo		ly	Form: (D) or	orm: Direct   I D) or Indirect   I ) (Instr. 4)   (	7. Nature of Indirect Beneficial Ownership			
								Code	Am	Amount (A) or (D)		r Price		Reported Transactio (Instr. 3 an	saction(s)		(	nstr. 4)
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
Derivative Conversion Date		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)		ınd	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		g C	B. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expira Date	tion	Title	Amount of Number of Shares			(Instr. 4)			
Phantom Stock <sup>(1)</sup>	\$0.0000(2)	12/31/2016		A		271.5742		(3)	(3)		Common Stock	271.57	<b>42</b>	\$145.12	10,051.6	5322	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.

 $\frac{\text{Andrea I. Rennig as Attorney in}}{\text{Fact}} \quad \underline{01/04/2017}$ 

\*\* 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.