FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFICE	AL OWNERSHII	2

OMB APPROVAL								
OMB Number:	3235-0287							
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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).

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>CARTER SUSAN K</u>				<u> </u>	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [APD]							ck all applica	r		on(s) to Issu 10% Ow		
(Last) (First) (Middle) 7201 HAMILTON BOULEVARD					3. Date of Earliest Transaction (Month/Day/Year) 07/20/2011							Officer (below)	give title		Other (s below)	pecify	
(Street) ALLENT			18195	4						6. Inc Line)	ividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(5	state)	(Zip)									<u> </u>					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					2A. Deemed Execution Date, if any (Month/Day/Year)		e, Transaction Dispos Code (Instr.		n Disposed C	ies Acquired (A) or Of (D) (Instr. 3, 4 an		5. Amount Securities Beneficial Owned Fo Reported	ly	Form:	Direct Indirect I	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Co	de V	Amount	(A) or (D)	Price	Transactio (Instr. 3 ar				msu. 4)	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
Derivative Conversion Date Execution Security or Exercise (Month/Day/Year) if any		3A. Deemed Execution Date, if any (Month/Day/Yea	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)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)			
Phantom Stock	\$0.0000(1)	07/20/2011		A		1,063 ⁽²⁾		08/08/1	988 ⁽³⁾	08/08/1988 ⁽³⁾	Common Stock	1,063	\$94.13	1,06	3	D	

Explanation of Responses:

- 1. Not applicable to this security
- 2. Initial award, upon election to the Board, of phantom deferred stock units (Units) under the issuer's Deferred Compensation Program for Directors, of the Company's Long-Term Incentive Plan (the Plan).
- 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

** Signature of Reporting Person

07/21/2011

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.