FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

ONID APPRO	VAL
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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

Name and Address of Reporting Person* Henkes Evert					2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
					[APD]									X	Director			10% Ov	ner		
(Last) (First) (Middle)														4	Officer (g below)	ive title		Other (s below)	pecify		
7201 HAMILTON BOULEVARD					3. Date of Earliest Transaction (Month/Day/Year) 03/31/2011																
(Street)					4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)							
ALLEN	IOWN I	PA	18195											X	Form file	Form filed by One Reporting Person					
(City)	(State)	(Zip)												Form filed by More than One Reporting Perso						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				ate		Execution if any	2A. Deemed Execution Date if any (Month/Day/Yea		Code (Instr.					5. Amount Securities Beneficially Owned Fol Reported	curities eneficially vned Following		Direct Indirect tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								-	Code	V Amount (A) or (D) Pri		Price	Transaction(s) (Instr. 3 and 4)				ilisu. 4)				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
Derivative Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			Code	Transaction Code (Instr. 8)		Derivative E		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		curity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transact	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)			
				Code	v	(A)	(D)	Date Exer	cisable	Ex Da	piration te	Title	or Nu	nount imber Shares	nt (I er	(Instr. 4)	ion(a)				
Phantom Stock ⁽¹⁾	\$0.0000(2)	03/31/2011 ⁽³⁾		A		44.6401		08/08	8/1988 ⁽³⁾	08.	/08/1988 ⁽³⁾	Commor Stock	44	1.6401	\$90.28	9,428.3	524	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).
- 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

03/31/2011

** 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.