FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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	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>Henkes Evert</u>			- 1	2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC /DE/ [ APD ]								k all applicat Director	ole)	orting Person(s) to Issuer  10% Owner			
(Last) 7201 HA	`	First) BOULEVARD	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 03/31/2010							Officer (g below)	give title		Other (specify below)		
(Street) ALLENT		A State)	18195 (Zip)		1. If Am	endment,	Date o	of Original Fi	led (I	Month/Day/`	Year)	6. Ind Line)		nt/Group Fil d by One R d by More t	eportii	ng Person	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3)  2. Trans Date (Month/			te	action 2A. Deemed Execution Date, if any (Month/Day/Yea		Code (Instr.			5. Amount Securities Beneficially Owned Fol	Form: y (D) or		: Direct I Indirect I str. 4)	7. Nature of Indirect Beneficial Ownership				
							Code	v	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 and			"	nstr. 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			5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		e I s (A) sed str.	Expiration Date of Secu (Month/Day/Year) Underly Derivati		7. Title and of Securiti Underlying Derivative (Instr. 3 an	es J Security	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)		Date Exercisable		xpiration ate	Title	Amount or Number of Shares		(Instr. 4)			
Phantom Stock <sup>(1)</sup>	(2)	03/31/2010		A		40.8135		08/08/1988 <sup>(3</sup>	08	3/08/1988 <sup>(3)</sup>	Common Stock	40.8135	\$0	8,074.953	88	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.

## Remarks:

Linda M. Svoboda as Attorney

in Fact

\*\* Signature of Reporting Person

Date

04/01/2010

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.

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