FO	RM	4
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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).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL 3235-0287

0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

			or Se	ction 30(h) of the In	vestmer	nt Con	npany Act of 19	940							
1. Name and Address of Reporting Person* Henkes Evert				2. Issuer Name and Ticker or Trading Symbol AIR PRODUCTS & CHEMICALS INC						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
		<u>/DE/</u>	[APD]				X	Director	10% C						
(Last) 7201 HAMILTO	(First) N BOULEVARD	(Middle)	3. Date 01/28	e of Earliest Transac /2010	tion (Mo	onth/D	ay/Year)			Officer (give title below)	Other below)	(specify)			
(Street)				4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individual or Joint/Group Filing (Check Applicable Line)					
ALLENTOWN	PA	18195							X	Form filed by One	e Reporting Pers	on			
(City)	(State)	(Zip)								Form filed by Mo Person	re than One Rep	orting			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned															
Date		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
					Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(e.g., puts, cans, warrants, options, convertible securities)														
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 of Derivative Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		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) (Instr. 4)	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				
Phantom Stock	\$0 ⁽¹⁾	01/28/2010		A		1,299		08/08/1988 ⁽²⁾	08/08/1988 ⁽²⁾	Common Stock	1,299	\$77.04	8,034.1403	D	

Explanation of Responses:

1. Not applicable to this security

2. 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

<u>in Fact</u>

** Signature of Reporting Person Date

01/29/2010

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.

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.

