

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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hours per response: 0.5Filed 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>Crocco Michael S</u> (Last) (First) (Middle) <u>7201 HAMILTON BOULEVARD</u> (Street) <u>ALLENTOWN PA 18195</u> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>09/30/2007</u>	3. Issuer Name and Ticker or Trading Symbol <u>AIR PRODUCTS & CHEMICALS INC /DE/ [APD]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>V.P. and Controller</u>	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	2,192	D	
Common Stock	2,196.22	I	By RSP ⁽¹⁾

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
1999 Global Employee Stock Option ⁽²⁾	10/01/2002	10/01/2009	Common Stock	100	28.78	D	
2001 Rights ⁽³⁾	08/08/1988 ⁽³⁾	10/03/2010	Common Stock	1,600	⁽³⁾	D	
2001 Stock Options ⁽⁴⁾	08/08/1988 ⁽⁵⁾	10/03/2010	Common Stock	1,600	35.82	D	
2002 Rights ⁽³⁾	08/08/1988 ⁽³⁾	10/02/2011	Common Stock	4,000	⁽³⁾	D	
2002 Stock Options ⁽⁴⁾	08/08/1988 ⁽⁶⁾	10/02/2011	Common Stock	4,000	38.02	D	
2003 Rights ⁽³⁾	08/08/1988 ⁽³⁾	10/02/2012	Common Stock	5,500	⁽³⁾	D	
2003 Stock Options ⁽⁴⁾	08/08/1988 ⁽⁷⁾	10/02/2012	Common Stock	5,500	43.09	D	
2004 Stock Options ⁽⁴⁾	08/08/1988 ⁽⁸⁾	10/02/2013	Common Stock	5,100	45.53	D	
2005 Stock Options ⁽⁴⁾	08/08/1988 ⁽⁹⁾	10/02/2014	Common Stock	5,400	54.17	D	
2006 Stock Options ⁽⁴⁾	08/08/1988 ⁽¹⁰⁾	10/04/2015	Common Stock	5,000	55.33	D	
2007 Stock Options ⁽⁴⁾	08/08/1988 ⁽¹¹⁾	10/03/2016	Common Stock	4,400	67.23	D	
Rights 2004 ⁽³⁾	08/08/1988 ⁽³⁾	10/02/2013	Common Stock	5,100	⁽³⁾	D	
Rights 2005 ⁽³⁾	08/08/1988 ⁽³⁾	10/02/2014	Common Stock	5,400	⁽³⁾	D	
Rights 2006 ⁽³⁾	08/08/1988 ⁽³⁾	10/04/2015	Common Stock	5,000	⁽³⁾	D	
Rights 2007 ⁽³⁾	08/08/1988 ⁽³⁾	10/03/2016	Common Stock	4,400	⁽³⁾	D	

Explanation of Responses:

- Shares represented by units of interest in the Company Stock Fund held under the issuer's Retirement Savings Plan.
- Granted under the Global Employee Stock Option Awards
- The Options include contractual rights (Rights) similar to employee restricted appreciation rights with exercise dates only during a 30 day period following a change in control of the Company (as defined in the LTIP). Exercise of Rights cancels the related Options on a one-for-one basis and entitles the reporting person to receive a cash payment equal to the fair market value of a share of Common Stock on the date of exercise (as defined in the LTIP) minus the option exercise price.
- Employee Stock Options (Options) granted under the issuer's Long-Term Incentive Plan (LTIP). Exercise of these Options cancels the related Rights described herein on a one-for-one basis.
- One-third became exercisable 10/02/01; one-third became exercisable 10/1/02; and one-third became exercisable 10/1/03.
- One-third became exercisable 10/1/02; one-third became exercisable 10/1/03; and one-third became exercisable 10/1/04.
- One-third became exercisable 10/1/03; one-third became exercisable 10/1/04; and one-third became exercisable 10/1/05.
- One-third became exercisable 10/1/04; one-third became exercisable 10/1/05; and one-third became exercisable 10/1/06.
- One-third became exercisable 10/1/05; one-third became exercisable 10/1/06; and one-third became exercisable 10/1/07.
- One-third became exercisable 10/3/06; one-third became exercisable 10/3/07; and one-third became exercisable 10/3/08.

11. One-third become exercisable on 10/2/07; one-third become exercisable on 10/2/08; and one-third become exercisable on 10/2/09.

By: Linda M. Svoboda as
Attorney in Fact

09/30/2007

** 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 5 (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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