Poling Gregory E Form 4 February 15, 2011

Common

Stock, par

02/14/2011

OMB APPROVAL UNITED STATES SECURITIES AND EXCHANGE COMMISSION OMB 3235-0287 Washington, D.C. 20549 Number: Check this box January 31, Expires: if no longer 2005 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to Estimated average **SECURITIES** Section 16. burden hours per Form 4 or response... 0.5 Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction 1(b). (Print or Type Responses) 1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Poling Gregory E Issuer Symbol W R GRACE & CO [GRA] (Check all applicable) (Middle) (Last) (First) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify C/O W. R. GRACE & CO., 7500 02/14/2011 below) below) **GRACE DRIVE** Vice President (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting COLUMBIA, MD 21044 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired (A) 5. Amount of 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction Disposed of (D) Securities Ownership Indirect (Instr. 3) Code (Instr. 3, 4 and 5) Beneficially Form: Beneficial (Month/Day/Year) Ownership (Instr. 8) Owned Direct (D) Following or Indirect (Instr. 4) Reported (I)(A) Transaction(s) (Instr. 4) (Instr. 3 and 4) Code V Amount Price Common Stock, par 16,500 02/14/2011 \$ 2.4 value M 16,500 D (2) \$0.01 per share (1) Common Stock, par value 18,000 Ι By Trust \$0.01 per share (1)

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16,500 D

(2)

\$

38.4666

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D

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value \$0.01 per share $\frac{(1)}{}$

Common Stock, par value

\$0.01 per share $\frac{(1)}{}$

18,000 I By Trust

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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 control number.

SEC 1474

(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, 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. Transaction Code (Instr. 8)	5. Number of or Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Dat	Date Exercisable and Expiration Date Underlying S (Instr. 3 and 4)		ecurities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Options (rights to	\$ 2.4	02/14/2011		M	16,500 (2)	03/08/2004	03/07/2011	Common Stock	16,500

Reporting Owners

Reporting Owner Name / Address							
	Director	10% Owner	Officer	Other			
Poling Gregory E							

C/O W. R. GRACE & CO. 7500 GRACE DRIVE COLUMBIA, MD 21044

Vice President

Relationshins

Signatures

buy)

Michael W. Conron, Attorney-in-Fact 02/15/2011

Reporting Owners 2

**Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) Each share of Common stock also represents one Preferred Share Purchase Right. Each such Right entitles the holder to purchase Preferred Stock or other securities or property upon the occurrence of certain events and subject to certain conditions.
- (2) Exercise and sale pursuant to Rule 10b5-1 Trading Plan for options granted March 8, 2001 and expiring March 7, 2011.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Signatures 3