W R GRACE & CO

Form 4

February 24, 2014

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

OMB APPROVAL

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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

1(b).

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Dockman William C. Issuer Symbol W R GRACE & CO [GRA] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title _ _ Other (specify C/O W. R. GRACE & CO., 7500 02/21/2014 below) **GRACE DRIVE** VP and Controller (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check

COLUMBIA, MD 21044

Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person

(City)	(State)	(Zip) Tabl	le I - Non-I	Derivative	Secu	rities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		sed of	` '	5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock, par value \$0.01 per share (1)	02/21/2014		Code V	Amount 4,100	or (D)	Price \$ 27.745	Transaction(s) (Instr. 3 and 4) 4,200	(Instr. 4)	
Common Stock, par value \$0.01 per share (1)	02/21/2014		S	4,100	D	\$ 99.8501 (2)	100	D	

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

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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. 5. Number Transaction Derivative Code Securities (Instr. 8) Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Options (rights to buy)	\$ 27.745	02/21/2014		M	4,100	05/05/2013	05/05/2015	Common Stock (1)	4,100

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

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

VP and Controller

Signatures

/s/ Sean Dempsey,

Attorney-in-Fact 02/24/2014

**Signature of Reporting Person

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 Stock 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) The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$99.85 to \$99.8501, inclusive. The reporting person undertakes to provide W. R. Grace & Co, any security holder of W. R. Grace & Co., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate

Reporting Owners 2

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price within the range set forth in this footnote.

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.