W R GRACE & CO

Form 4

August 20, 2014

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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OMB APPROVAL

Section 16. Form 4 or Form 5 obligations may continue.

Check this box

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

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 WAGONER PAMELA K 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 08/19/2014 below) **GRACE DRIVE** VP & CHRO (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) Tab	le I - Non-l	Derivative	Secui	rities Acquir	ed, Disposed of,	or Beneficially	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Ad Transaction Disposed of Code (Instr. 3, 4 and (Instr. 8)			D) 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock, par value \$0.01 per share (1)	08/19/2014		Code V M	Amount 30,000	(D)	Price \$ 42.255		D	
Common Stock, par value \$0.01 per share (1)	08/19/2014		S	30,000	D	\$ 99.0258 (2)	0	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. Transactic Code (Instr. 8)	TransactionDerivative Code Securities		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)	\$ 42.255	08/19/2014		M		30,000	05/05/2014	05/05/2016	Common Stock (1)	30,000

Reporting Owners

Relationships Reporting Owner Name / Address Director

10% Owner Officer Other

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

VP & CHRO

Signatures

Sean E. Dempsey, 08/20/2014 Attorney-in-Fact

**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).
- 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.

The price reported in column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$99.02 to \$99.035, 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 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.

Reporting Owners 2

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