W R GRACE & CO Form 4

December 16, 2015

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL OMB

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Check this box if no longer subject to Section 16. Form 4 or

SECURITIES 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

(Middle)

1(b).

(Last)

GRACE DRIVE

(Print or Type Responses)

1. Name and Address of Reporting Person * Cole Keith N

(First)

C/O W. R. GRACE & CO., 7500

2. Issuer Name and Ticker or Trading Symbol

W R GRACE & CO [GRA]

(Month/Day/Year)

3. Date of Earliest Transaction

12/14/2015

4. If Amendment, Date Original

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner X_ Officer (give title Other (specify below) below)

VP, Govt. Relations and EHS

(Street)

Filed(Month/Day/Year)

3.

6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person

Form filed by More than One Reporting Person

COLUMBIA, MD 21044

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

Transaction(A) or Disposed of Code (D) (Instr. 8) (Instr. 3, 4 and 5)

Code V Amount (D)

4. Securities Acquired 5. Amount of Securities Beneficially Owned Following Reported Transaction(s)

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) (Instr. 4)

(Instr. 3 and 4)

Ownership (Instr. 4)

Common

Stock, par 12/14/2015 value \$.01 per share (1)

3,000 A

(A)

or

Price

\$ 5,344 (2)

D

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

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate	Amoun	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivative		e		Securit	ies	(Instr. 5)	Bene
	Derivative				Securities Acquired			(Instr. 3	3 and 4)		Own
	Security										Follo
	•				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									A manuat		
									Amount		
					Date	Date	Expiration	Or Title Nesselves			
						Exercisable Date	Date		Number		
				C + V	(A) (D)				of		
				Code V	(A) (D)				Shares		

Reporting Owners

Relationships Reporting Owner Name / Address

> Officer 10% Owner Other Director

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

VP, Govt. Relations and

EHS

Signatures

/s/ Sean E. Dempsey, Attorney-in-Fact

12/16/2015

**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 Stock Purchase Right. Each such Right entitles the holder to purchase **(1)** Preferred Stock or other securities or property upon the occurrence of certain events and subject to certain conditions.
- Includes 2,344 unvested shares acquired pursuant to an award of restricted stock units granted on May 7, 2015. These RSUs will vest on May 7, 2018.

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.

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