

W R GRACE &amp; CO

Form 4

February 22, 2007

**FORM 4**
**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

Check this box  
if no longer  
subject to  
Section 16.  
Form 4 or  
Form 5  
obligations  
may continue.  
See Instruction  
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF  
SECURITIES**

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

## OMB APPROVAL

OMB  
Number: 3235-0287  
Expires: January 31,  
2005  
Estimated average  
burden hours per  
response... 0.5

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Shelnitz Mark A

(Last) (First) (Middle)

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

(Street)

COLUMBIA, MD 21044

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading  
Symbol

W R GRACE &amp; CO [GRA]

3. Date of Earliest Transaction  
(Month/Day/Year)

02/20/2007

4. If Amendment, Date Original  
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to  
Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_ 10% Owner  
\_\_\_\_X\_\_\_\_ Officer (give title \_\_\_\_ Other (specify  
below) below)

VP, Gen Counsel &amp; Secretary

6. Individual or Joint/Group Filing(Check  
Applicable Line)

\_\_\_\_X\_\_\_\_ Form filed by One Reporting Person  
\_\_\_\_ Form filed by More than One Reporting  
Person

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially 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)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 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 <sup>(1)</sup>	02/20/2007		M	6,743 (2)	A \$ 12.0409	10,243	D
Common Stock, par value \$0.01 per share <sup>(1)</sup>					9,420.8496	I	By Trust (3)
Common Stock, par value \$0.01 per share <sup>(1)</sup>	02/20/2007		S	6,743 (2)	D \$ 24.3993	3,500	D

value  
\$0.01 per  
share <sup>(1)</sup>

Common  
Stock, par  
value  
\$0.01 per  
share <sup>(1)</sup>

9,420.8496 I

By Trust  
(3)

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 Derivative Securities 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)	Amount or Number of Shares
Employee Stock Options (rights to buy)	\$ 12.0409	02/20/2007		M	6,743 <u>(2)</u>	03/05/2000 03/04/2007	Common Stock	6,743

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Shelnitz Mark A C/O W. R. GRACE & CO. 7500 GRACE DRIVE COLUMBIA, MD 21044			VP, Gen Counsel & Secretary	

## Signatures

Mark A.  
Shelnitz

02/22/2007

\_\_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 adopted September 2006 for options expiring March 4, 2007.
- (3) Such shares are held in a "Rabbi" trust established by the issuer for the benefit of certain officers and directors.

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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