

Dockman William C.
 Form 3
 February 14, 2012

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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

(Print or Type Responses)

| | | | | |
|---|---------|---|--|---|
| 1. Name and Address of Reporting Person * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Dockman William C. | | (Month/Day/Year) | W R GRACE & CO [GRA] | |
| (Last) | (First) | (Middle) | 02/08/2012 | |
| C/O W. R. GRACE & CO., Â 7500 GRACE DRIVE | | 4. Relationship of Reporting Person(s) to Issuer | | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| (Street) | | (Check all applicable) | | |
| COLUMBIA, Â MD Â 21044 | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) Controller | | 6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |
| (City) | (State) | (Zip) | | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|--|---|--|
| Common Stock, par value \$0.01 per share ⁽¹⁾ | 100 | D | Â |

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

SEC 1473 (7-02)

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

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) Title | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|---|---|--|---|--|
|---|---|---|--|---|--|

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| | Date Exercisable | Expiration Date | Amount or Number of Shares | or Indirect (I) (Instr. 5) |
|--|------------------|-----------------|---------------------------------------|----------------------------|
| Employee Stock Options (rights to buy) | 03/01/2011 | 09/11/2013 | Common Stock ⁽¹⁾ 11,180 | \$ 19.71 D |
| Employee Stock Options (rights to buy) | Â ⁽²⁾ | 05/07/2014 | Common Stock ⁽¹⁾ 9,710 | \$ 9.785 D |
| Employee Stock Options (rights to buy) | Â ⁽³⁾ | 05/05/2015 | Common Stock ⁽¹⁾ 12,250 | \$ 27.745 D |
| Employee Stock Options (rights to buy) | Â ⁽⁴⁾ | 05/05/2016 | Common Stock ⁽¹⁾ 10,000 | \$ 42.255 D |

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 | Â | Â | Â Controller | Â |

Signatures

Michael W.
Conron

02/14/2012

^{__}Signature of
Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, *see* Instruction 5(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) 4,974 are currently exercisable and 4,736 become exercisable on 05/07/2012.
- (3) 4,084 are currently exercisable, 4,083 become exercisable on 05/05/2012 and 4,083 become exercisable on 05/05/2013.
- (4) 3,334 become exercisable on 05/04/2012, 3,333 become exercisable on 05/03/2013 and 3,333 become exercisable on 05/05/2014.

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.