GRAINGER W W INC Form 4

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subject to

March 02, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

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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 See Instruction

30(h) of the Investment Company Act of 1940

1(b).

Common

Stock

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading **GANTZ WILBUR H** Issuer Symbol GRAINGER W W INC [GWW] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) X_ Director 10% Owner Officer (give title Other (specify 100 GRAINGER PARKWAY 03/01/2010 below) (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 LAKE FOREST, IL 60045-5201 Person (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial Indirect (I) (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Ownership Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s)

or

Code V Amount (D) Price

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

D

(Instr. 3 and 4)

6,300

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

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| 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. Transacti Code (Instr. 8) | of De Sec Ac (A Dis of (In | rivative curities quired) or sposed (D) str. 3, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | | 8. Pri Deriv Secur (Instr |
|---|---|---|---|---------------------------------------|---|---|--|--------------------|---|--|------------------------------------|
| | | | | Code V | (A |) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Stock Units | <u>(1)</u> | 03/01/2010 | | A | 96 | <u>,</u> | (2) | (2) | Common Stock | 96 | \$ 10 |
| Stock Option | \$ 37.5 | | | | | | 04/25/2001 | 04/24/2011 | Common Stock | 2,400 | |
| Stock Option | \$ 54.61 | | | | | | 04/24/2002 | 04/23/2012 | Common Stock | 1,650 | |
| Stock Option | \$ 45.5 | | | | | | 04/30/2003 | 04/29/2013 | Common Stock | 1,980 | |
| Stock Option | \$ 54.14 | | | | | | 04/28/2004 | 04/27/2014 | Common Stock | 1,670 | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|--|---------------|-----------|---------|-------|--|--|--|
| Transfer de la companya de la compan | Director | 10% Owner | Officer | Other | | | |
| GANTZ WILBUR H 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201 | X | | | | | | |
| | | | | | | | |

Signatures

C. L. Kogl, as attorney-in-fact 03/02/2010

**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) 1-for-1
- (2) The stock units are expected to settle in cash following termination of service as a director.

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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