GRAINGER W W INC

Check this box

if no longer

subject to

Section 16.

Form 4 or

obligations

may continue.

See Instruction

Form 5

Form 4

December 03, 2012

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

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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

1(b).

(Last)

(City)

(Print or Type Responses)

1. Name and Address of Reporting Person * **NOVICH NEIL S**

(First)

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

(Middle)

(Zip)

GRAINGER W W INC [GWW]

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

12/01/2012

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

(Check all applicable)

below)

(Street)

4. If Amendment, Date Original

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

Filed(Month/Day/Year)

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

LAKE FOREST, IL 60045-5201

(State)

100 GRAINGER PARKWAY

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

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following

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

Reported (A) Transaction(s)

or (Instr. 3 and 4)

Common Stock

Code V Amount (D) Price

5,315 D

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.

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 | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | | 4. Transac Code | 5. tionNumbe of | r Expiration I | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | |
|---------------------------------|------------------------------------|--------------------------------------|------------------|-----------------------|-----------------------|------------------------|--|-----------------|---|------------------------|
| (Instr. 3) | Price of Derivative Security | | (Month/Day/Year) | (Instr. 8 | | tive ies ed ed 3, | , rem) | (msu. 3 und | '' | Security (Instr. 5) |
| | | | | Code | V (A) (I | D) Date Exercisable | Expiration Date | Title | Amount or Number of Shares | |
| Stock Units | <u>(1)</u> | 12/01/2012 | | A | 74 | (2) | (2) | Common Stock | 74 | \$ 194.02 |

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

NOVICH NEIL S
100 GRAINGER PARKWAY X
LAKE FOREST, IL 60045-5201

Signatures

David L. Rawlinson, as attorney-in-fact

12/03/2012

**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 shares of common stock on a one-for-one basis following termination of service as a director.

Remarks:

Exhibit List: Exhibit 24 - Power of Attorney

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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