

Pulick Michael A
 Form 4
 March 07, 2012

FORM 4

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

OMB APPROVAL

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

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Pulick Michael A

(Last) (First) (Middle)
 100 GRAINGER PARKWAY
 (Street)

LAKE FOREST, IL 60045-5201

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 GRAINGER W W INC [GWW]

3. Date of Earliest Transaction
 (Month/Day/Year)
 03/06/2012

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___ 10% Owner
 Officer (give title below) ___ Other (specify below)
 Senior Vice President

6. Individual or Joint/Group Filing(Check Applicable Line)
 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)
			Code	V	Amount (D)	Price	
Common Stock	03/06/2012		S		200	\$ 207.01	30,025 D
Common Stock	03/06/2012		S		613	\$ 207.02	29,412 D
Common Stock	03/06/2012		S		600	\$ 207.023	28,812 D
Common Stock	03/06/2012		S		387	\$ 207.03	28,425 D
Common Stock	03/06/2012		S		100	\$ 207.0614	28,325 D

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Common Stock	03/06/2012	S	100	D	\$ 207.064	28,225	D
Common Stock	03/06/2012	S	100	D	\$ 207.07	28,125	D
Common Stock	03/06/2012	S	16	D	\$ 207.12	28,109	D
Common Stock	03/06/2012	S	184	D	\$ 207.1201	27,925	D
Common Stock	03/06/2012	S	100	D	\$ 207.13	27,825	D
Common Stock	03/06/2012	S	200	D	\$ 207.15	27,625	D
Common Stock	03/06/2012	S	100	D	\$ 207.19	27,525	D
Common Stock	03/06/2012	S	100	D	\$ 207.22	27,425	D
Common Stock	03/06/2012	S	100	D	\$ 207.222	27,325	D
Common Stock	03/06/2012	S	100	D	\$ 207.24	27,225	D
Common Stock	03/06/2012	S	100	D	\$ 207.244	27,125	D
Common Stock	03/06/2012	S	200	D	\$ 207.25	26,925	D
Common Stock	03/06/2012	S	100	D	\$ 207.275	26,825	D
Common Stock	03/06/2012	S	300	D	\$ 207.3	26,525	D
Common Stock	03/06/2012	S	100	D	\$ 207.4	26,425	D

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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative	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
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Derivative Security		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares
		Code	V (A) (D)				
Option	\$ 85.82			04/30/2011	04/29/2018	Common Stock	10,500
Option	\$ 81.49			04/29/2012	04/28/2019	Common Stock	30,000
Option	\$ 108.15			04/28/2013	04/27/2020	Common Stock	29,000
Option	\$ 149.02			04/27/2014	04/26/2021	Common Stock	24,876

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Pulick Michael A 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201			Senior Vice President	

Signatures

John L. Howard, as attorney-in-fact 03/07/2012

__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).

Remarks:

This is the first of two Forms 4 to report all March 6, 2012 transactions for the reporting person.

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.