

Brown Laura D
 Form 4
 February 04, 2013

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Brown Laura D

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

3. Date of Earliest Transaction (Month/Day/Year)
 02/01/2013

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Sr. VP, Comm. & Inv. Rel.

LAKE FOREST, IL 60045

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

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	02/01/2013		M		2,600	A	\$ 83.08
Common Stock	02/01/2013		S		700	D	\$ 219.46
Common Stock	02/01/2013		S		60	D	\$ 219.47
Common Stock	02/01/2013		S		7	D	\$ 219.48
Common Stock	02/01/2013		S		848	D	\$ 219.4968
							12,642
							11,942
							11,882
							11,875
							11,027

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Common Stock	02/01/2013	S	300	D	\$ 219.53	10,727	D
Common Stock	02/01/2013	S	100	D	\$ 219.55	10,627	D
Common Stock	02/01/2013	S	85	D	\$ 219.57	10,542	D
Common Stock	02/01/2013	S	100	D	\$ 219.63	10,442	D
Common Stock	02/01/2013	S	200	D	\$ 219.75	10,242	D
Common Stock	02/01/2013	S	200	D	\$ 219.76	10,042	D

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

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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)	8. Amount or Number of Shares
Option	\$ 83.08	02/01/2013		M	2,600	04/25/2010 04/24/2017	Common Stock	2,600
Option	\$ 85.82					04/30/2011 04/29/2018	Common Stock	2,700
Option	\$ 81.49					04/29/2012 04/28/2019	Common Stock	5,000
Option	\$ 108.15					04/28/2013 04/27/2020	Common Stock	4,300
Option	\$ 149.02					04/27/2014 04/26/2021	Common Stock	6,789
Option	\$ 204.01					04/25/2015 04/24/2022		5,208

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Brown Laura D 100 GRAINGER PARKWAY LAKE FOREST, IL 60045			Sr. VP, Comm. & Inv. Rel.	

Signatures

David L. Rawlinson, as attorney-in-fact	02/04/2013
<small>**Signature of Reporting Person</small>	<small>Date</small>

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:

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.