

CARRUTHERS COURT D

Form 4

January 31, 2013

FORM 4

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

OMB APPROVAL

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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 *
CARRUTHERS COURT D

(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)
01/31/2013

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)

Sr. 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 (A) or (D) Price		
Common Stock	01/31/2013		M		5,000 A \$ 81.49	29,166	D
Common Stock	01/31/2013		S		100 D \$ 217.48	29,066	D
Common Stock	01/31/2013		S		100 D \$ 217.52	28,966	D
Common Stock	01/31/2013		S		100 D \$ 217.54	28,866	D
Common Stock	01/31/2013		S		300 D \$ 217.57	28,566	D

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Common Stock	01/31/2013	S	100	D	\$ 217.61	28,466	D
Common Stock	01/31/2013	S	200	D	\$ 217.62	28,266	D
Common Stock	01/31/2013	S	500	D	\$ 217.63	27,766	D
Common Stock	01/31/2013	S	200	D	\$ 217.64	27,566	D
Common Stock	01/31/2013	S	100	D	\$ 217.65	27,466	D
Common Stock	01/31/2013	S	200	D	\$ 217.66	27,266	D
Common Stock	01/31/2013	S	100	D	\$ 217.67	27,166	D
Common Stock	01/31/2013	S	93	D	\$ 217.68	27,073	D
Common Stock	01/31/2013	S	300	D	\$ 217.69	26,773	D
Common Stock	01/31/2013	S	303	D	\$ 217.70	26,470	D
Common Stock	01/31/2013	S	200	D	\$ 217.71	26,270	D
Common Stock	01/31/2013	S	304	D	\$ 217.72	25,966	D
Common Stock	01/31/2013	S	400	D	\$ 217.73	25,566	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.

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(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. D S (1)
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			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Option	\$ 81.49	01/31/2013	M			5,000	04/29/2012	04/28/2019	Common Stock	5,000
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
Option	\$ 204.01						04/25/2015	04/24/2022	Common Stock	16,923

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CARRUTHERS COURT D 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201			Sr. Vice President	

Signatures

David L. Rawlinson, as attorney-in-fact
01/31/2013
Date

**Signature of Reporting Person

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 January 31, 2013 transactions for the reporting person.
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.