

Macpherson Donald G  
Form 4  
March 18, 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 \*  
Macpherson Donald G

(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)  
03/14/2013

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. VP, Global Supply Chain

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 Ownership (Instr. 4)
				(A) or (D)	Price		
Common Stock	03/14/2013		M <sup>(1)</sup>	3,000	A \$ 81.49	33,658	D
Common Stock	03/14/2013		S <sup>(1)</sup>	100	D \$ 224.18	33,558	D
Common Stock	03/14/2013		S <sup>(1)</sup>	100	D \$ 224.19	33,458	D
Common Stock	03/14/2013		S <sup>(1)</sup>	100	D \$ 224.2	33,358	D
Common Stock	03/14/2013		S <sup>(1)</sup>	100	D \$ 224.23	33,258	D

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Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 224.25	33,158	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 224.29	33,058	D
Common Stock	03/14/2013	<u>S(1)</u>	503	D	\$ 224.47	32,555	D
Common Stock	03/14/2013	<u>S(1)</u>	300	D	\$ 224.48	32,255	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 224.49	32,155	D
Common Stock	03/14/2013	<u>S(1)</u>	1	D	\$ 224.51	32,154	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 224.52	32,054	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 224.53	31,954	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 224.63	31,854	D
Common Stock	03/14/2013	<u>S(1)</u>	200	D	\$ 224.79	31,654	D
Common Stock	03/14/2013	<u>S(1)</u>	34	D	\$ 224.87	31,620	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 225.02	31,520	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 225.03	31,420	D
Common Stock	03/14/2013	<u>S(1)</u>	55	D	\$ 225.06	31,365	D
Common Stock	03/14/2013	<u>S(1)</u>	75	D	\$ 225.12	31,290	D
Common Stock	03/14/2013	<u>S(1)</u>	125	D	\$ 225.13	31,165	D
Common Stock	03/14/2013	<u>S(1)</u>	207	D	\$ 225.25	30,958	D
Common Stock	03/14/2013	<u>S(1)</u>	200	D	\$ 225.3	30,758	D
Common Stock	03/14/2013	<u>S(1)</u>	100	D	\$ 225.33	30,658	D

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

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**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	\$ 81.49	03/14/2013		M <sup>(1)</sup>	3,000	04/29/2012 04/28/2019	Common Stock	3,000
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
Macpherson Donald G 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201			Sr. VP, Global Supply Chain	

## Signatures

David L. Rawlinson, as attorney-in-fact  
 03/18/2013  
 \*\*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) Transaction pursuant to a previously adopted Rule 10b5-1 trading program.

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