GRAINGER W W INC

Form 4

February 20, 2015

FORM 4

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

OMB Number:

Estimated average

burden hours per

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

January 31, Expires: 2005

3235-0287

Form 4 or Form 5 obligations may continue.

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

response... 0.5

OMB APPROVAL

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Macpherson Donald G

2. Issuer Name and Ticker or Trading

5. Relationship of Reporting Person(s) to Issuer

Symbol

GRAINGER W W INC [GWW]

(Check all applicable)

(Last)

(Instr. 3)

(First) (Middle) 3. Date of Earliest Transaction

(Month/Day/Year) 02/19/2015

Director 10% Owner Other (specify

Sr. VP & Group President

X_ Officer (give title below)

100 GRAINGER PARKWAY

(Street)

4. If Amendment, Date Original

Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

6. Individual or Joint/Group Filing(Check

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

LAKE FOREST, IL 60045

(City) (State) (Zip) 1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if

3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5)

5. Amount of 7. Nature of Securities Ownership Indirect Beneficially Form: Direct Beneficial Owned (D) or Ownership Following Indirect (I) (Instr. 4)

(Instr. 4)

D

(Month/Day/Year)

(Instr. 8)

Code V Amount

Reported (A) Transaction(s) (Instr. 3 and 4) (D) Price

Common 02/19/2015 Stock

F 8,522 D 25,677 235.65

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 (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. Transacti Code (Instr. 8)	5. orNumber of Derivativ 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. Pri Deriv Secui (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option	\$ 81.49					04/29/2012	04/28/2019	Common Stock	3,000	
Stock Option	\$ 108.15					04/28/2013	04/27/2020	Common Stock	29,000	
Stock Option	\$ 149.02					04/27/2014	04/26/2021	Common Stock	24,876	
Stock Option	\$ 204.01					04/25/2015	04/24/2022	Common Stock	16,923	
Stock Option	\$ 245.86					04/24/2016	04/23/2023	Common Stock	15,741	
Stock Option	\$ 248.22					04/30/2017	04/29/2024	Common Stock	12,266	

Reporting Owners

Reporting Owner Name / Address	Kelationships						
	Director	10% Owner	Officer	Other			
Macpherson Donald G			Sr. VP &				
100 GRAINGER PARKWAY			Group				
LAKE FOREST, IL 60045			President				

Signatures

David L. Rawlinson, as attorney-in-fact 02/19/2015

**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).

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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