GRAINGER W W INC

Form 4

February 27, 2015

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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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

See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Macpherson Donald G Issuer Symbol GRAINGER W W INC [GWW] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner Other (specify _X__ Officer (give title 100 GRAINGER PARKWAY 02/27/2015 below) Sr. VP & Group President (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting LAKE FOREST, IL 60045 Person

(City)	(State)	(Zip) Tab	le I - Non-	Derivative	e Secu	rities Acqui	red, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)		sed of 4 and (A) or	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)
Common Stock	02/27/2015		Code V A	Amount 1,862	(D)	Price \$ 0	27,539	D	
Common Stock	02/27/2015		F	851	D	\$ 254.89	26,688	D	
Common Stock	02/27/2015		S(1)	100	D	\$ 237.56	26,588	D	
Common Stock	02/27/2015		S(1)	100	D	\$ 238.15	26,488	D	
Common Stock	02/27/2015		S <u>(1)</u>	100	D	\$ 238.16	26,388	D	

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Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.21	26,288	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.26	26,188	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.32	26,088	D
Common Stock	02/27/2015	S <u>(1)</u>	200	D	\$ 238.37	25,888	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.4	25,788	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.43	25,688	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.49	25,588	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.54	25,488	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.6	25,388	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.61	25,288	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.615	25,188	D
Common Stock	02/27/2015	S <u>(1)</u>	200	D	\$ 238.66	24,988	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.67	24,888	D
Common Stock	02/27/2015	S <u>(1)</u>	200	D	\$ 238.69	24,688	D
Common Stock	02/27/2015	S <u>(1)</u>	29	D	\$ 238.7	24,659	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.71	24,559	D
Common Stock	02/27/2015	S <u>(1)</u>	100	D	\$ 238.72	24,459	D
Common Stock	02/27/2015	S <u>(1)</u>	200	D	\$ 238.75	24,259	D
Common Stock	02/27/2015	S <u>(1)</u>	200	D	\$ 238.91	24,059	D
Common Stock	02/27/2015	S <u>(1)</u>	99	D	\$ 238.93	23,960	D

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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. Transacti Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed	Expiration Date (Month/Day/Year)		Underlying Securities (Instr. 3 and 4)		8. Pri Deriv Secur (Instr
					of (D) (Instr. 3,					
				Code V	4, and 5) (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	Relationships						
	Director	10% Owner	Officer	Other			
Macpherson Donald G			Sr. VP &				
100 GRAINGER PARKWAY			Group				
LAKE FOREST, IL 60045			President				

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Signatures

David L. Rawlinson, as attorney-in-fact

02/27/2015

**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.

Remarks:

This is the first of two Forms 4 to report all February 27, 2015 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.

Signatures 4