GRAINGER W W INC

Form 4

February 18, 2016

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

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obligations

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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

may continue. See Instruction

30(h) of the Investment Company Act of 1940

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 HOWARD JOHN L Issuer Symbol GRAINGER W W INC [GWW] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner _X__ Officer (give title Other (specify 100 GRAINGER PARKWAY 02/17/2016 below) Sr. VP and General Counsel (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 Person

LAKE FOREST, IL 60045

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative	Secui	rities Acqu	ired, 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. Transactic Code (Instr. 8)	4. Securi or(A) or D (Instr. 3,	ispose	d of (D)	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	02/17/2016		A	1,039	A	\$ 0	38,731	D	
Common Stock	02/17/2016		F	325	D	\$ 202.59	38,406	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. Transactic Code (Instr. 8)	5. orNumber of Derivativ Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Pri Deriv Secur (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option	\$ 85.82					04/30/2011	04/29/2018	Common Stock	11,000	
Stock Option	\$ 81.49					04/29/2012	04/28/2019	Common Stock	21,000	
Stock Option	\$ 108.15					04/28/2013	04/27/2020	Common Stock	19,500	
Stock Option	\$ 149.02					04/27/2014	04/26/2021	Common Stock	14,990	
Stock Option	\$ 204.01					04/25/2015	04/24/2022	Common Stock	11,716	
Stock Option	\$ 245.86					04/24/2016	04/23/2023	Common Stock	11,543	
Stock Option	\$ 248.22					04/30/2017	04/29/2024	Common Stock	7,360	
Stock Option	\$ 231.88					04/01/2018	03/31/2025	Common Stock	9,728	

Reporting Owners

Reporting Owner Name / Address	Relationships						
r g	Director	10% Owner	Officer	Other			
HOWARD JOHN L 100 GRAINGER PARKWAY LAKE FOREST, IL 60045			Sr. VP and General Counsel				
O! I							

Signatures

Noni Ellison Southall, as attorney-in-fact

**Signature of Reporting Person Date

Reporting Owners 2

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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.