GRAINGER W W INC

Form 4

February 17, 2017

FORM 4

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

OMB 3235-0287 Number:

Estimated average

OMB APPROVAL

Check this box if no longer subject to Section 16.

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

January 31, Expires: 2005

0.5

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

burden hours per response...

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * HOWARD JOHN L			2. Issuer Name and Ticker or Trading Symbol GRAINGER W W INC [GWW]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	(Check air applicable)			
			(Month/Day/Year)	Director 10% Owner			
100 GRAINGER PARKWAY			02/15/2017	X Officer (give title Other (specify 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)			
LAKE FOREST, IL 60045				_X_ Form filed by One Reporting Person Form filed by More than One Reportin Person			

LAKE FOREST, IL 6004	45
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(City)	(State)	(Zip) 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. 4. Securities Acquired (A) Transaction Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or			5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
_			Code V	Amount	(D)	Price	(Instr. 3 and 4)		
Common Stock	02/15/2017		A	569	A	\$ 0	38,975	D	
Common Stock	02/15/2017		F	177	D	\$ 232.25	38,798	D	
Common Stock	02/15/2017		A	779	A	\$ 0	39,577	D	
Common Stock	02/15/2017		F	245	D	\$ 232.25	39,332	D	
Common Stock	02/16/2017		S <u>(1)</u>	926	D	\$ 252.5217	38,406	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. Transactic Code (Instr. 8)	5. ofNumb of Deriv Secur Acqui (A) of	ative ities ired	Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Pri Deriv Secur (Instr
					of (D) (Instr. 4, and)					
				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	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	
Stock Option	\$ 234.38						04/01/2019	03/31/2026	Common Stock	12,390	

Reporting Owners

Reporting Owner Name / Address	Relationships						
1 8	Director	10% Owner	Officer	Other			
HOWARD JOHN L			Sr. VP and General Counsel				
100 GRAINGER PARKWAY							

Reporting Owners 2

LAKE FOREST, IL 60045

Signatures

Hugo Dubovoy, Jr., as attorney-in-fact

02/17/2017

**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.

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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