GRAINGER W W INC

Form 4

February 22, 2013

FORM 4

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

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

January 31, Expires: 2005

OMB APPROVAL

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 0.5 response...

Estimated average

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 an applicable)			
			(Month/Day/Year)	Director 10% Owner			
100 GRAINGER PARKWAY			02/20/2013	X Officer (give title Other (specify below) Sr. VP and General Counsel			
(Street)			4 If Amendment Date Original	6 Individual or Joint/Crown Filips/Charles			
	(Silect)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line)			
LAKE FOREST, IL 60045-5201				_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(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) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common Stock	02/20/2013		Code V A	Amount 4,600	(D)	Price \$ 0	46,402	D		
Common Stock	02/20/2013		F	1,491	D	\$ 202.37	44,911	D		
Common Stock	02/21/2013		S	2,509	D	\$ 225	42,402	D		
Common Stock	02/21/2013		S	100	D	\$ 225.13	42,302	D		
Common Stock	02/21/2013		S	200	D	\$ 225.205	42,102	D		

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Common \$ 225.215 41,802 02/21/2013 S 300 D Stock

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

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(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. onNumber of Derivative 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	
Option	\$ 76.61					04/26/2009	04/25/2016	Common Stock	10,000	
Option	\$ 83.08					04/25/2010	04/24/2017	Common Stock	10,000	
Option	\$ 85.82					04/30/2011	04/29/2018	Common Stock	11,000	
Option	\$ 81.49					04/29/2012	04/28/2019	Common Stock	21,000	
Option	\$ 108.15					04/28/2013	04/27/2020	Common Stock	19,500	
Option	\$ 149.02					04/27/2014	04/26/2021	Common Stock	14,990	
Option	\$ 204.01					04/25/2015	04/24/2022	Common Stock	11,716	

Reporting Owners

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

> > Sr. VP and General Counsel

2 Reporting Owners

HOWARD JOHN L 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201

Signatures

David L. Rawlinson, as attorney-in-fact

02/21/2013

**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).

Remarks:

Exhibit List: Exhibit 24 - Power of Attorney

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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