GRAINGER W W INC

Form 4

February 17, 2017

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL OMB 3235-0287

Number:

Expires:

Form filed by More than One Reporting

Person

January 31, 2005

0.5

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if no longer subject to Section 16. Form 4 or Form 5 obligations

Check this box

SECURITIES 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. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * HIGH JOSEPH C			2. Issuer Name and Ticker or Trading Symbol GRAINGER W W INC [GWW]	5. Relationship of Reporting Person(s) to Issuer		
(Last) (First)		(Middle)	3. Date of Earliest Transaction	(Check all applicable)		
			(Month/Day/Year)	Director 10% Owner		
100 GRAINGER PARKWAY			02/15/2017	_X_ Officer (give title Other (specify below) Sr. VP & Chief People Officer		
(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		

LAKE FOREST, IL 60045

(City)	(State)	(Zip) Tab	ole I - Non-	Derivativ	e Secu	ırities Acquir	ed, 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)	omr Dispo (Instr. 3,	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	02/15/2017		Code V A	Amount 569	(D)	Price \$ 0	6,378	D	
Common Stock	02/15/2017		F	177	D	\$ 232.25	6,201	D	
Common Stock	02/15/2017		A	779	A	\$ 0	6,980	D	
Common Stock	02/15/2017		F	252	D	\$ 232.25	6,728	D	
Common Stock	02/16/2017		S(1)	690	D	\$ 252.5783	6,038	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. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Date (Month/Day/Year)		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	\$ 204.01					04/25/2015	04/24/2022	Common Stock	10,415	
Stock Option	\$ 245.86					04/24/2016	04/23/2023	Common Stock	8,920	
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	8,459	
Stock Option	\$ 234.38					04/01/2019	03/31/2026	Common Stock	9,531	

Reporting Owners

Relationships							
Director	10% Owner	Officer	Other				
		Sr. VP & Chief People Officer					
	Director		Director 10% Owner Officer Sr. VP & Chief People				

Signatures

Hugo Dubovoy, Jr., as attorney-in-fact 02/17/2017

**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).
- (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.