GRAINGER W W INC

Form 4

February 23, 2016

FORM 4

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

OMB 3235-0287 Number:

OMB APPROVAL

Check this box if no longer subject to Section 16.

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

January 31, Expires: 2005

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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...

Estimated average

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *Lomax William			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			02/22/2016	X Officer (give title Other (specify below)		
				Vice President and Controller		
	(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 Reporting Person		

(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. Transactic Code (Instr. 8)		sed of 4 and (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	02/22/2016		S S	100	D D	\$ 221.4832	5,691	D	
Common Stock	02/22/2016		S	100	D	\$ 221.4869	5,591	D	
Common Stock	02/22/2016		S	900	D	\$ 221.49	4,691	D	
Common Stock	02/22/2016		S	246	D	\$ 221.53	4,445	D	
Common Stock	02/22/2016		S	121	D	\$ 221.59	4,324	D	

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Common Stock	02/22/2016	S	100	D	\$ 221.62	4,224	D
Common Stock	02/22/2016	S	100	D	\$ 221.65	4,124	D
Common Stock	02/22/2016	S	102	D	\$ 221.66	4,022	D
Common Stock	02/22/2016	S	100	D	\$ 221.71	3,922	D
Common Stock	02/22/2016	S	1,000	D	\$ 221.92	2,922	D
Common Stock	02/22/2016	S	100	D	\$ 222.05	2,822	D
Common Stock	02/22/2016	S	100	D	\$ 222.09	2,722	D

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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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 2. Derivative Conversion Security or Exercise (Instr. 3) Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transact Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D)		ate	Amou Under Secur	rlying	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Owne Follo Repo Trans
			Code V	(Instr. 3, 4, and 5)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		

Lomax William 100 GRAINGER PARKWAY LAKE FOREST, IL 60045

Vice President and Controller

Reporting Owners 2

Signatures

Noni Ellison Southall, as attorney-in-fact

02/23/2016

**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:

This is the third of three Forms 4 to report all February 22, 2016 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.

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