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 (Last) (First) (Middle)			2. Issuer Name and Ticker or Trading Symbol GRAINGER W W INC [GWW]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
			3. Date of Earliest Transaction				
			(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)	4. Securities Acquired (A) oner Disposed of (D) (Instr. 3, 4 and 5) (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	Amount 100	(D)	Price \$ 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.

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SEC 1474 (9-02)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	le and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transac	tionNumber	Expiration D	ate	Amou	ınt of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	rlying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivativ	re e		Secur	rities	(Instr. 5)
	Derivative				Securities	S		(Instr.	. 3 and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									Amount	
									or	
						Date	Expiration	Titla	Number	
						Exercisable	Date	Title	of	
				Code V	V (A) (D)				Shares	
				Code	v (A) (D)				Shares	

Reporting Owners

Reporting Owner Name / Address	Keiauonsinps					
	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.

Signatures 3