GRAINGER W W INC Form 4

Check this box

if no longer

subject to

Section 16.

November 03, 2016

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB APPROVAL

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

Washington, D.C. 20549

Form 4 or Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations 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

(Print or Type Responses)

1(b).

(Last)

(City)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Tapia Eric R Issuer Symbol GRAINGER W W INC [GWW] (Check all applicable)

3. Date of Earliest Transaction

(Month/Day/Year) 11/01/2016

Director 10% Owner X_ Officer (give title Other (specify

below) Vice President & Controller

4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

X Form filed by One Reporting Person Form filed by More than One Reporting Person

LAKE FOREST, IL 60045-5201

(State)

(Street)

(First)

100 GRAINGER PARKWAY

(Middle)

(Zip)

1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Disposed of (D) Beneficially (D) or Beneficial (Instr. 3, 4 and 5) Indirect (I) Ownership (Month/Day/Year) (Instr. 8) Owned Following (Instr. 4) (Instr. 4) Reported

(A) Transaction(s) or (Instr. 3 and 4) Code V Amount (D) Price

1,202 Common 11/01/2016 A \$0 4,746 D (1) Stock

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

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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. Transacti Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	5		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Prio Deriv Secur (Instr.
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option	\$ 245.86					04/24/2016	04/23/2023	Common Stock	825	
Stock Option	\$ 248.22					04/30/2017	04/29/2024	Common Stock	672	
Stock Option	\$ 231.88					04/01/2018	03/31/2025	Common Stock	768	
Stock Option	\$ 234.38					04/01/2019	03/31/2026	Common Stock	865	

Reporting Owners

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

Tapia Eric R

100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201 Vice President & Controller

Signatures

Hugo Dubovoy, Jr., as 11/03/2016 Attorney-in-fact

**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) Award of restricted stock units to be settled after vesting by the delivery of unrestricted shares of common stock on a one-for-one basis. 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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