Tapia Eric R Form 4 June 15, 2018

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **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 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

may continue.

See Instruction

OMB APPROVAL

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1. Name and A Tapia Eric R	^	orting Person *	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			
100 GRAINGER PARKWAY			(Month/Day/Year) 06/13/2018	Director 10% Owner _X_ Officer (give title Other (specify below) Vice President & Controller		
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		
LAKE FOREST, IL 60045-5201						
(City)	(State)	(Zip)	Table I - Non-Derivative Securities A	canired. Disposed of, or Beneficially Owned		

(City)	(State)	(Zip) Tabl	e I - Non-D	Derivative	Secu	rities Acqu	ired, 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)	4. Securi on(A) or D (Instr. 3,	ispose	d of (D)	5. Amount of Securities Ownership Beneficially Form: Direct Owned (D) or Following Indirect (I) Reported (Instr. 4) Transaction(s) (Instr. 3 and 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common	06/13/2018		Code V M	Amount 825	(D)	Price \$	4,637	D	
Stock	00/13/2018		1V1	023	А	245.86	4,037	D	
Common Stock	06/13/2018		M	672	A	\$ 248.22	5,309	D	
Common Stock	06/13/2018		M	768	A	\$ 231.88	6,077	D	
Common Stock	06/13/2018		S	1,665	D	\$ 315.33 (1)	4,412	D	
Common Stock	06/13/2018		S	600	D	\$ 316.23	3,812	D	

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(2)

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

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SEC 1474 (9-02)

> 8. P Der Sec (Ins

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)	Deri Secu Acq (A) (Disp of (I	osed (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option	\$ 245.86	06/13/2018		M		825	04/24/2016	04/23/2023	Common Stock	825
Stock Option	\$ 248.22	06/13/2018		M		672	04/30/2017	04/29/2024	Common Stock	672
Stock Option	\$ 231.88	06/13/2018		M		768	04/01/2018	03/31/2025	Common Stock	768
Stock Option	\$ 234.38						04/01/2019	03/31/2026	Common Stock	865
Stock Option	\$ 231.2						04/03/2020	04/02/2027	Common Stock	1,258
Stock Option	\$ 276.64						04/02/2021	04/01/2028	Common Stock	1,593

Reporting Owners

Reporting Owner Name / Address	Kelationships						
1 8	Director	10% Owner	Officer	Other			
Tapia Eric R							
100 GRAINGER PARKWAY			Vice President & Controller				
LAKE FOREST, IL 60045-5201							

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Signatures

Hugo Dubovoy, Jr., as attorney-in-fact

06/15/2018

**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).
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$314.97 to \$315.96, inclusive. The reporting person undertakes to provide W.W. Grainger, Inc., any security holder of W.W. Grainger, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnotes (1) and (2) to this Form 4.
- (2) The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$316.20 to \$316.30, inclusive.

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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