Perez Beatriz R Form 4 July 27, 2017

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

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

obligations may continue. See Instruction 1(b).

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

(Print or Type Responses)

1. Name and Address of Reporting Person * Perez Beatriz R

(First) (Middle) (Last)

(Street)

100 GRAINGER PARKWAY

2. Issuer Name and Ticker or Trading Symbol

GRAINGER W W INC [GWW]

3. Date of Earliest Transaction

(Month/Day/Year) 07/25/2017

4. If Amendment, Date Original

Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to

OMB

Number:

Expires:

response...

Estimated average

burden hours per

OMB APPROVAL

3235-0287

January 31,

2005

0.5

Issuer

(Check all applicable)

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

below)

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

1.Title of

Security

(Instr. 3)

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if

(Month/Day/Year)

4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 8)

(Instr. 3, 4 and 5)

5. Amount of Securities Beneficially Owned Following

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (Instr. 4) (Instr. 4)

Reported (A) Transaction(s) or (Instr. 3 and 4)

Code V Amount (D) Price

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 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)

1. Title of Derivative Conversion Security or Exercise (Instr. 3) Price of

3. Transaction Date 3A. Deemed (Month/Day/Year)

Execution Date, if (Month/Day/Year) 4. Transactionof Code Derivative (Instr. 8) Securities

5. Number 6. Date Exercisable and **Expiration Date** (Month/Day/Year)

7. Title and Amount of 8. Price of **Underlying Securities** (Instr. 3 and 4)

(9-02)

Derivativ Security (Instr. 5)

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S	ecurity	(A) or Disposed of (D) (Instr. 3, 4, and 5)									
			Code	V	(A)	(D)		Expiration Date	Title	Amount or Number of Shares	
Stock	(1)	07/25/2017	Δ		672		(2)	(2)	Common	672	\$ 166.8

Acquired

Stock

Reporting Owners

Derivative

Reporting Owner Name / Address	Relationships						
Reporting Owner Plante / Plantess	Director	10% Owner	Officer	Other			
Perez Beatriz R 100 GRAINGER PARKWAY LAKE FOREST, IL 60045	X						

Signatures

Units

Hugo Dubovoy, Jr., as attorney-in-fact 07/27/2017

**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) 1-for-1
- (2) The stock units are expected to settle in shares of common stock on a one-for-one basis following end of service as a director.

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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