Brown Laura D Form 4 July 27, 2017

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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Check this box

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

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Brown Laura D

2. Issuer Name and Ticker or Trading Symbol

GRAINGER W W INC [GWW]

5. Relationship of Reporting Person(s) to

(Check all applicable)

Issuer

(Last)

(City)

(First)

(Middle)

(Zip)

3. Date of Earliest Transaction

(Month/Day/Year)

10% Owner Other (specify

07/27/2017

X_ Officer (give title below)

Sr. VP, Inv Rel & Comm 6. Individual or Joint/Group Filing(Check

(Street)

(State)

100 GRAINGER PARKWAY

4. If Amendment, Date Original Filed(Month/Day/Year)

Applicable Line)

Director

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

Person

LAKE FOREST, IL 60045

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

Common Stock

07/27/2017

F

1,131

D 166.18

10,104

D

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

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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. Transactic Code (Instr. 8)	5. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		te	7. Title and Underlying (Instr. 3 and	Securities	8. Prio Deriv Secur (Instr.
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option	\$ 149.02					04/27/2014	04/26/2021	Common Stock	6,789	
Stock Option	\$ 204.01					04/25/2015	04/24/2022	Common Stock	5,208	
Stock Option	\$ 245.86					04/24/2016	04/23/2023	Common Stock	4,197	
Stock Option	\$ 248.22					04/30/2017	04/29/2024	Common Stock	3,271	
Stock Option	\$ 231.88					04/01/2018	03/31/2025	Common Stock	3,807	
Stock Option	\$ 234.38					04/01/2019	03/31/2026	Common Stock	4,766	
Stock Option	\$ 231.2					04/03/2020	04/02/2027	Common Stock	3,311	

Reporting Owners

Reporting Owner Name / Address			Relationships		
·r···	Director	10% Owner	Officer	Other	
Brown Laura D 100 GRAINGER PARKWAY LAKE FOREST, IL 60045			Sr. VP, Inv Rel & Comm		

Signatures

Hugo Dubovoy, Jr., as attorney-in-fact	07/27/2017		
**Signature of Reporting Person	Date		

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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).

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.