

Brown Laura D
 Form 4
 July 27, 2017

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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

(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 Issuer

(Check all applicable)

(Last) (First) (Middle)
 100 GRAINGER PARKWAY

3. Date of Earliest Transaction (Month/Day/Year)
 07/27/2017

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Sr. VP, Inv Rel & Comm

(Street)
 LAKE FOREST, IL 60045

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

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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 Ownership (Instr. 4)
				(A) or (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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SEC 1474 (9-02)

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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Underlying Securities (Instr. 3 and 4)
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			
	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

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.

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