Watson Lucas E Form 4 April 27, 2018

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL OMB

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if no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

See Instruction

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

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * Watson Lucas E

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)

Common

Stock

(First) (Middle)

(Zip)

3. Date of Earliest Transaction

4. If Amendment, Date Original

X_ Director

10% Owner Other (specify Officer (give title

100 GRAINGER PARKWAY

(Street)

(Month/Day/Year)

04/25/2018

below) 6. Individual or Joint/Group Filing(Check

Filed(Month/Day/Year) Applicable Line)

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

I

Person

195

LAKE FOREST, IL 60045 (City) (State)

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

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)		any	Code	Disposed of (D)	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned	Indirect (I)	Ownership
					Following	(Instr. 4)	(Instr. 4)
				()	Reported		
				(A)	Transaction(s)		
				or	(T + 2 1.4)		

(Instr. 3 and 4)

Code V Amount (D) Price

Held in the Watson

Trust. (1)

(9-02)

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)	4. Transacti Code (Instr. 8)	action of Derivative Expiration Date Under Securities (Month/Day/Year) (Instr		7. Title and A Underlying S (Instr. 3 and	Securities	8. Price Deriva Securit (Instr.	
			Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Units	<u>(2)</u>	04/25/2018	A	1,113	(3)	(3)	Common Stock	1,113	\$ 279

Reporting Owners

**Signature of Reporting Person

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
Watson Lucas E 100 GRAINGER PARKWAY LAKE FOREST, IL 60045	X					

Signatures

Hugo Dubovoy, Jr., as attorney-in-fact 04/27/2018

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).

Date

- (1) Held in the Watson Trust UA DTD December 17, 2015, of which the reporting person is co-trustee.
- (2) 1-for-1
- (3) 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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