Merriwether Deidra C Form 4 February 22, 2019

FORM 4

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

OMB Number: 3235-0287 January 31,

OMB APPROVAL

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: 2005
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Form 5 obligations may continue.

See Instruction

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

response... 0.5

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Merriwether Deidra C			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	(Cheek an applicable)		
			(Month/Day/Year)	Director 10% Owner		
100 GRAINGER PARKWAY		AY	02/20/2019	X_ Officer (give title Other (specification) Sr. VP (See Remarks)		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
LAKE FORES	T, IL 60045	i	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tab	ole I - Non-	Derivativ	e Seci	ırities Acquir	ed, Disposed of,	or Beneficially	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactic Code (Instr. 8)		sed of 4 and (A) or	` ′	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 Indirect Beneficial Ownership (Instr. 4)
Common Stock	02/20/2019		A(1)	397	A	\$ 0	5,489	D	
Common Stock	02/20/2019		F	126	D	\$ 314.65	5,363	D	
Common Stock	02/21/2019		S(2)	171	D	\$ 309.6367 (3)	5,192	D	
Common Stock	02/21/2019		S(2)	100	D	\$ 310.97	5,092	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)

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. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		e	7. Title and A Underlying S (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	\$ 248.22					04/30/2017	04/29/2024	Common Stock	2,127	
Stock Option	\$ 231.88					04/01/2018	03/31/2025	Common Stock	2,496	
Stock Option	\$ 234.38					04/01/2019	03/31/2026	Common Stock	2,860	
Stock Option	\$ 231.2					04/03/2020	04/02/2027	Common Stock	2,318	
Stock Option	\$ 276.64					04/02/2021	04/01/2028	Common Stock	3,123	

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Merriwether Deidra C 100 GRAINGER PARKWAY LAKE FOREST, IL 60045			Sr. VP (See Remarks)				

Signatures

Hugo Dubovoy, Jr., as	02/22/2019
attorney-in-fact	
**Signature of Reporting Person	Date

2 Reporting Owners

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).
- Performance vested stock units ("PSUs"), granted on January 1, 2016. The Company's performance over the three-year period ended December 31, 2018 achieved a payout equal to 97 percent of the 2016 PSU program target, as approved by the Board of Directors of the
- (1) Company (the "Board"), acting in executive session with only independent directors participating, on February 20, 2019, upon the earlier determination and recommendation of the Compensation Committee of the Board.
- (2) Transaction pursuant to a previously adopted Rule 10b5-1 trading program.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$309.28 to \$309.89, 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 this footnote (3) to this Form 4.

Remarks:

Reporting Person's full title is Senior Vice President, U.S. Direct Sales and Strategic Initiatives.

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.