Merriwether Deidra C Form 3 November 02, 2018 FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 OMB APPROVAL

INITIAL STATEMENT OF 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 A Person <u>*</u> Merriwet			2. Date of Event Requiring Statement (Month/Day/Year)	3. Issuer Name and Ticker or Trading Symbol GRAINGER W W INC [GWW]				
(Last)	(First)	(Middle)	10/31/2018	4. Relationship of Reporting Person(s) to Issuer			5. If Amendment, Date Original Filed(Month/Day/Year)	
100 GRAINGER PARKWAY (Street) LAKE FOREST, IL 60045				(Check all applicable) Director 10% Owne X_Officer Other (give title below) (specify below) Sr. VP (See Remarks)		Owner () ()	 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person 	
(City)	(State)	(Zip)	Table I - N	Non-Derivat	ive Securiti	es Be	neficially Owned	
1.Title of Secur (Instr. 4)	rity		2. Amount o Beneficially (Instr. 4)		3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nat Owne (Instr.	1	
Common Sto	ock		5,092		D	Â		
Reminder: Repo owned directly			ach class of securities benefic	^{ially} S	EC 1473 (7-02)		
	infor requi	mation cont ired to respo	pond to the collection of ained in this form are not and unless the form displ MB control number.					
Т	able II - De	erivative Secu	rities Beneficially Owned (e.	.g., puts, calls.	warrants, opt	ions. c	onvertible securities)	

1. Title of Derivative Security 2. Date E (Instr. 4) Expiration (Month/Day/		isable and te	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of	5. Ownership Form of Derivative	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of	Derivative Security	Security: Direct (D) or Indirect	

3235-0104

January 31,

2005

0.5

Number:

Expires:

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Estimated average burden hours per

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				Shares		(I) (Instr. 5)	
Stock Option	04/30/2017	04/29/2024	Common Stock	2,127	\$ 248.22	D	Â
Stock Option	04/01/2018	03/31/2025	Common Stock	2,496	\$ 231.88	D	Â
Stock Option	04/01/2019	03/31/2026	Common Stock	2,860	\$ 234.38	D	Â
Stock Option	04/03/2020	04/02/2027	Common Stock	2,318	\$ 231.2	D	Â
Stock Option	04/02/2021	04/01/2028	Common Stock	3,123	\$ 276.64	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
Merriwether Deidra C 100 GRAINGER PARKWAY LAKE FOREST, IL 60045	Â	Â	Sr. VP (See Remarks)	Â			
Signatures							
Hugo Dubovoy, as	1	1/02/2018					

Hugo Dubovoy, as	11/02/2018
attorney-in-fact	11/02/2010

**Signature of Reporting Person

Date

Explanation of Responses:

If the form is filed by more than one reporting person, see Instruction 5(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).

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Remarks:

Reporting Person's full title is Senior Vice President, U.S. Direct Sales and Strategic Initiatives. Exhibits: Exhibit 24 - Power of Attorney

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.