GRAINGER W W INC

Form 4

February 18, 2016

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

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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

may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Pers JADIN RONALD L	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
	GRAINGER W W INC [GWW]	(Check all applicable)		
(Last) (First) (Midd	e) 3. Date of Earliest Transaction			
100 GRAINGER PARKWAY	(Month/Day/Year) 02/17/2016	Director 10% Owner _X Officer (give title Other (specify below) Sr. VP & Chief Financial Off		
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
LAKE FOREST, IL 60045	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tabl	e I - Non-D	D erivative	Secur	rities Acqu	ired, Disposed of	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	4. Securion(A) or Di (Instr. 3,	spose 4 and (A) or	d of (D) 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 Indirect Beneficial Ownership (Instr. 4)
Common Stock	02/17/2016		Code V A	Amount 1,512	(D)	Price \$ 0	20,929	D	
Common Stock	02/17/2016		F	470	D	\$ 202.59	20,459	D	
Common Stock							5,756	I	By wife. $\frac{(1)}{}$

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

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number.

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. Pri Deriv Secun (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option	\$ 81.49					04/29/2012	04/28/2019	Common Stock	30,000	
Stock Option	\$ 108.15					04/28/2013	04/27/2020	Common Stock	29,000	
Stock Option	\$ 149.02					04/27/2014	04/26/2021	Common Stock	25,336	
Stock Option	\$ 204.01					04/25/2015	04/24/2022	Common Stock	19,527	
Stock Option	\$ 245.86					04/24/2016	04/23/2023	Common Stock	16,790	
Stock Option	\$ 248.22					04/30/2017	04/29/2024	Common Stock	13,084	
Stock Option	\$ 231.88					04/01/2018	03/31/2025	Common Stock	15,226	

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
JADIN RONALD L 100 GRAINGER PARKWAY			Sr. VP & Chief Financial Off		
LAKE FOREST II 60045					

Signatures

Noni Ellison Southall, as	02/18/2016
attorney-in-fact	02/10/2010
**Signature of Reporting Person	Date

Reporting Owners 2

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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).
- (1) Shares held by Mr. Jadin's wife. Mr. Jadin disclaims beneficial ownership of such shares.

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.