JADIN RONALD L Form 4 May 10, 2013

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

Washington, D.C. 20549

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OMB APPROVAL

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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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * JADIN RONALD L			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)		(Middle)	3. Date of Earliest Transaction	(Check an applicable)			
			(Month/Day/Year)	Director 10% Owner			
100 GRAINGER PARKWAY		WAY	05/10/2013	X Officer (give title Other (specify below) Sr. VP & CFO			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			
			Filed(Month/Day/Year)				
LAKE FOREST, IL 60045		45		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. 4. Securities Acquired (A) Transaction Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or				5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code V	Amount	(D)	Price	(Instr. 3 and 4)				
Common Stock	05/10/2013		S	200	D	\$ 256.04	19,717	D			
Common Stock	05/10/2013		S	100	D	\$ 256.041	19,617	D			
Common Stock	05/10/2013		S	100	D	\$ 256.05	19,517	D			
Common Stock	05/10/2013		S	100	D	\$ 256.051	19,417	D			
Common Stock	05/10/2013		S	200	D	\$ 256.06	19,217	D			

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Stock	1,300	D	256.064	17,517	Ъ	
Common Stock				6,086	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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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. Transactic Code (Instr. 8)	5. onNumber 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. Pri Deriv Secur (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option	\$ 76.61					04/26/2009	04/25/2016	Common Stock	3,500	
Stock Option	\$ 83.08					04/25/2010	04/24/2017	Common Stock	3,200	
Stock Option	\$ 85.82					04/30/2011	04/29/2018	Common Stock	13,500	
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	

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

JADIN RONALD L

100 GRAINGER PARKWAY Sr. VP & CFO

LAKE FOREST, IL 60045

Signatures

John L. Howard, as attorney-in-fact 05/10/2013

**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).
- (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.

Reporting Owners 3