JADIN RONALD L Form 4 April 25, 2013

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 4 or 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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading JADIN RONALD L Issuer Symbol GRAINGER W W INC [GWW] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify 100 GRAINGER PARKWAY 04/24/2013 below) Sr. VP & CFO (Street) 4. If Amendment, Date Original 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 LAKE FOREST, IL 60045 Person

(State)

(Zip)

(City)

(City)	(State) (Z	Zip) Table	I - Non-De	rivative Securities Acc	quired, Disposed o	of, or Beneficial	ly Owned
1.Title of Security	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if		4. Securities nAcquired (A) or	5. Amount of Securities	Form: Direct	7. Nature of Indirect
(Instr. 3)		any (Month/Day/Year)	Code (Instr. 8)	Disposed of (D) (Instr. 3, 4 and 5)	Beneficially Owned Following	(D) or Indirect (I)	Beneficial Ownership
			Code V	(A) or Amount (D) Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)
Common Stock				, ,	19,917	D	
Common Stock					6,086	I	By wife. (1)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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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. Transacti Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed o (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)	
				Code V	(A) (D	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option	\$ 52.29					04/27/2008	04/26/2015	Common Stock	5,000
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	04/24/2013		A	16,790	04/24/2016	04/23/2023	Common Stock	16,790

Reporting Owners

Reporting Owner Name / Address	Relationships					
F	Director	10% Owner	Officer	Other		
JADIN RONALD L 100 GRAINGER PARKWAY LAKE FOREST, IL 60045			Sr. VP & CFO			

Signatures

David L. Rawlinson, as attorney-in-fact 04/24/2013

**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.