GRAINGER W W INC

Form 4

February 17, 2017

FORM 4

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

OMB 3235-0287 Number:

OMB APPROVAL

January 31, Expires: 2005

Estimated average burden hours per 0.5 response...

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

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

Form 5 Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations 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 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)	3. Date of Earliest Transaction	(Check an appheasie)		
			(Month/Day/Year)	Director 10% Owner		
100 GRAINGER PARKWAY			02/15/2017	_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		
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person		
LAKE FOREST, IL 60045				Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative	Secur	ities 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)	A. Deemed 3. 4. Securities Acquired xecution Date, if Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (A) (A)			d of (D)	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	or (D)	Price	(Instr. 3 and 4)		
Common Stock	02/15/2017		A	1,010	A	\$0	21,469	D	
Common Stock	02/15/2017		F	341	D	\$ 232.25	21,128	D	
Common Stock	02/15/2017		A	779	A	\$ 0	21,907	D	
Common Stock	02/15/2017		F	262	D	\$ 232.25	21,645	D	
Common Stock							5,546	I	By wife. $\underline{^{(1)}}$

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

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SEC 1474 (9-02)

> 8. Pri Deriv Secur (Instr

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. orNumber 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)	
				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
Stock Option	\$ 234.38					04/01/2019	03/31/2026	Common Stock	18,109

Reporting Owners

Reporting Owner Name / Address	Keiauonsnips					
	Director	10% Owner	Officer	Other		
JADIN RONALD L 100 GRAINGER PARKWAY			Sr. VP & Chief Financial Off			

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LAKE FOREST, IL 60045

Signatures

Hugo Dubovoy, Jr., as attorney-in-fact

02/17/2017

**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.

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