GRAINGER W W INC

Check this box

if no longer

subject to

Form 4 June 11, 2014

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

0.5

Estimated average burden hours per

OMB APPROVAL

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Section 16. Form 4 or Form 5 obligations may continue.

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)

See Instruction

1. Name and Address of Reporting Person * CARRUTHERS COURT D			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 applicable)		
			(Month/Day/Year)	Director 10% Owner		
100 GRAINGER PARKWAY			06/09/2014	_X_ Officer (give title Other (specify below)		
				Sr. Vice President		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line)		
LAKE FORI	EST, IL 600	045-5201		_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tal	ole I - Non-	Derivative	e Secu	rities Acquire	d, Disposed of, o	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. Transactic Code (Instr. 8)	onDisposed	. Securities Acquired (A) or Disposed of (D) Instr. 3, 4 and 5) (A) or		5. Amount of 6. Securities Ownership Beneficially Form: Owned Direct (D) Following or Indirect Reported (I) Transaction(s) (Instr. 4) (Instr. 3 and 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	06/09/2014		Code V M(1)	Amount 14,500	(D)	Price \$ 108.15	36,315	D	
Common Stock	06/09/2014		S <u>(1)</u>	100	D	\$ 266.02	36,215	D	
Common Stock	06/09/2014		S(1)	162	D	\$ 266.06	36,053	D	
Common Stock	06/09/2014		S(1)	100	D	\$ 266.07	35,953	D	
Common Stock	06/09/2014		S <u>(1)</u>	200	D	\$ 266.12	35,753	D	

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Common Stock	06/09/2014	S(1)	200	D	\$ 266.19	35,553	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.2477	35,453	D
Common Stock	06/09/2014	S(1)	100	D	\$ 266.27	35,353	D
Common Stock	06/09/2014	S(1)	100	D	\$ 266.45	35,253	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.46	35,153	D
Common Stock	06/09/2014	S <u>(1)</u>	34	D	\$ 266.49	35,119	D
Common Stock	06/09/2014	S <u>(1)</u>	66	D	\$ 266.5	35,053	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.52	34,953	D
Common Stock	06/09/2014	S(1)	200	D	\$ 266.55	34,753	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.62	34,653	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.64	34,553	D
Common Stock	06/09/2014	S <u>(1)</u>	93	D	\$ 266.66	34,460	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.71	34,360	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.72	34,260	D
Common Stock	06/09/2014	S(1)	100	D	\$ 266.8	34,160	D
Common Stock	06/09/2014	S(1)	100	D	\$ 266.84	34,060	D
Common Stock	06/09/2014	S <u>(1)</u>	100	D	\$ 266.85	33,960	D
Common Stock	06/09/2014	S(1)	100	D	\$ 266.87	33,860	D
Common Stock	06/09/2014	S <u>(1)</u>	60	D	\$ 266.9	33,800	D
Common Stock	06/09/2014	S(1)	200	D	\$ 266.97	33,600	D

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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)

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. Transactio Code (Instr. 8)	Secur Acque or D	urities uired (A) isposed of r. 3, 4,	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	\$ 108.15	06/09/2014		M(1)		14,500	04/28/2013	04/27/2020	Common Stock	14,500
Stock Option	\$ 149.02						04/27/2014	04/26/2021	Common Stock	24,876
Stock Option	\$ 204.01						04/25/2015	04/24/2022	Common Stock	16,923
Stock Option	\$ 245.86						04/24/2016	04/23/2023	Common Stock	15,741
Stock Option	\$ 248.22						04/30/2017	04/29/2024	Common Stock	12,266

Reporting Owners

Reporting Owner Name / Address	Relationships							
Transfer of the second	Director	10% Owner	Officer	Other				
CARRUTHERS COURT D								
100 GRAINGER PARKWAY			Sr. Vice President					
LAKE FOREST, IL 60045-5201								

Signatures

David L. Rawlinson, as attorney-in-fact 06/10/2014

**Signature of Reporting Person Date

Reporting Owners 3

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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) Sale pursuant to a previously adopted Rule 10b5-1 trading program.

Remarks:

This is the first of four Forms 4 to report all June 9, 2014 transactions for the reporting person.

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.