GRAINGER W W INC

Check this box

if no longer

Section 16.

Form 4 or

obligations

may continue.

See Instruction

Form 5

subject to

Form 4 May 04, 2009

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

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 * **GANTZ WILBUR H**

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to Issuer

GRAINGER W W INC [GWW]

(Check all applicable)

OMB APPROVAL

Estimated average

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3235-0287

January 31,

2005

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Number:

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response...

(Last) (First) (Middle)

(Street)

3. Date of Earliest Transaction (Month/Day/Year)

05/01/2009

_X__ Director 10% Owner Officer (give title Other (specify below)

100 GRAINGER PARKWAY

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

Person

LAKE FOREST, IL 60045-5201

(City)	(State)	(Zip) Tabl	e I - Non-D	D erivative	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	05/01/2009		M	2,070	A	\$ 43.5	14,870	D	
Common Stock	05/01/2009		S	100	D	\$ 83.09	14,770	D	
Common Stock	05/01/2009		S	70	D	\$ 83.1	14,700	D	
Common Stock	05/01/2009		S	130	D	\$ 83.11	14,570	D	
Common Stock	05/01/2009		S	70	D	\$ 83.12	14,500	D	
	05/01/2009		S	200	D		14,300	D	

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Common Stock					\$ 83.13		
Common Stock	05/01/2009	S	200	D	\$ 83.15	14,100	D
Common Stock	05/01/2009	S	200	D	\$ 83.16	13,900	D
Common Stock	05/01/2009	S	200	D	\$ 83.17	13,700	D
Common Stock	05/01/2009	S	500	D	\$ 83.18	13,200	D
Common Stock	05/01/2009	S	400	D	\$ 83.19	12,800	D

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. Transacti Code (Instr. 8)	orof D Secu Acq (A) Disp (D)	urities uired or posed of tr. 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 Units	(1)						(2)	(2)	Common Stock	20,957
Stock Option	\$ 43.5	05/01/2009		M		2,070	04/26/2000	04/25/2010	Common Stock	2,070
Stock Option	\$ 37.5						04/25/2001	04/24/2011	Common Stock	2,400
Stock Option	\$ 54.61						04/24/2002	04/23/2012	Common Stock	1,650
Stock Option	\$ 45.5						04/30/2003	04/29/2013	Common Stock	1,980
Stock Option	\$ 54.14						04/28/2004	04/27/2014	Common Stock	1,670

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

GANTZ WILBUR H 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201

X

Signatures

C. L. Kogl, as attorney-in-fact

05/04/2009

**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) 1-for-1
- (2) The stock units are expected to settle in cash following termination of service as a director.

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