GRAINGER W W INC

Form 4

February 28, 2007

FORM 4

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

OMB 3235-0287 Number:

January 31,

2005

OMB APPROVAL

Check this box if no longer subject to

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

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Expires:

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 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * GRAINGER DAVID W	2. Issuer Name and Ticker or Trading Symbol GRAINGER W W INC [GWW]	5. Relationship of Reporting Person(s) to Issuer			
(Last) (First) (Middle)	3. Date of Earliest Transaction	(Check all applicable)			
100 GRAINGER PARKWAY	(Month/Day/Year) 02/27/2007	X_ Director 10% Owner Officer (give title Other (specify below) below)			
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
LAKE FOREST, IL 60045-5201	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

(City)	(State)	(Zip) Tabl	e I - Non-D	erivative	Secur	ities Acq	uired, Disposed o	of, 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. Transactio Code (Instr. 8)	4. Securi on(A) or D (Instr. 3,	ispose	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(D)	Price	(msu. 3 and 1)		Saa
Common Stock	02/27/2007		S	750	D	\$ 78.53	668,680	I	See Footnote (1)
Common Stock	02/27/2007		S	100	D	\$ 78.55	668,580	I	See Footnote
Common Stock	02/27/2007		S	225	D	\$ 78.58	668,355	I	See Footnote (1)
Common Stock	02/27/2007		S	225	D	\$ 78.59	668,130	I	See Footnote (1)

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Common Stock	02/27/2007	S	200	D	\$ 78.6	667,930	I	See Footnote (1)
Common Stock	02/27/2007	S	350	D	\$ 78.64	667,580	I	See Footnote
Common Stock	02/27/2007	S	100	D	\$ 78.66	667,480	I	See Footnote
Common Stock	02/27/2007	S	200	D	\$ 78.68	667,280	I	See Footnote
Common Stock	02/27/2007	S	1,350	D	\$ 78.69	665,930	I	See Footnote (1)
Common Stock	02/27/2007	S	850	D	\$ 78.71	665,080	I	See Footnote (1)
Common Stock	02/27/2007	S	600	D	\$ 78.72	664,480	I	See Footnote (1)
Common Stock	02/27/2007	S	2,150	D	\$ 78.74	662,330	I	See Footnote (1)
Common Stock	02/27/2007	S	2,400	D	\$ 78.76	659,930	I	See Footnote (1)
Common Stock	02/27/2007	S	350	D	\$ 78.8	659,580	I	See Footnote
Common Stock	02/27/2007	S	100	D	\$ 78.83	659,480	I	See Footnote
Common Stock	02/27/2007	S	450	D	\$ 78.84	659,030	I	See Footnote
Common Stock	02/27/2007	S	250	D	\$ 78.85	658,780	I	See Footnote (1)
Common Stock	02/27/2007	S	50	D	\$ 78.87	658,730	I	See Footnote (1)
Common Stock	02/27/2007	S	50	D	\$ 78.88	658,680	I	See Footnote

								<u>(1)</u>
Common Stock	02/27/2007	S	50	D	\$ 78.92	658,630	I	See Footnote
Common Stock	02/27/2007	S	107	D	\$ 79.03	658,523	I	See Footnote
Common Stock	02/27/2007	S	1,000	D	\$ 79.04	657,523	I	See Footnote
Common Stock	02/27/2007	S	1,393	D	\$ 79.05	656,130	I	See Footnote

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

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9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Tit	le and	8. Price of	-
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transact	ionNumber	Expiration D	ate	Amou	ınt of	Derivative	
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Unde	rlying	Security	
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Secur	ities	(Instr. 5)	ı
	Derivative				Securities			(Instr	. 3 and 4)		1
	Security				Acquired						
					(A) or						
					Disposed						
					of (D)						
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration	Title	or Number		
						Exercisable	Date	Title	of		
				Code V	(A) (D)						
				Code V	' (A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
GRAINGER DAVID W 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201	X						

Reporting Owners 3

Signatures

L. M. Trusdell, as attorney-in-fact

02/28/2007

**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 trusts, of which Mr. Grainger is a trustee or co-trustee, FBO Mr. Grainger's wife. Mr. Grainger disclaims beneficial ownership as to such shares.

Remarks:

This Form 4 is the fourth of four Forms 4 to report all February 27, 2007 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.

Signatures 4