GRAINGER W W INC

Form 4 May 07, 2007

FORM 4

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

OMB Number:

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

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

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OMB APPROVAL

3235-0287

January 31,

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 ** KEYSER RICHARD 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)	(Last) (First) (Middle)		3. Date of Earliest Transaction	(Check all applicable)			
100 GRAINGER PARKWAY		VAY	(Month/Day/Year) 05/04/2007	Director 10% Owner _X_ Officer (give title Other (specify below) Chairman and CEO			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Chec			
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) Table I - Non-Derivative Securities Acquired, Disposed of, 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. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			d of (D)	5. Amount of Securities Beneficially Owned Following Reported	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)			
Common Stock	05/04/2007		S	1,200	D	\$ 84.08	294,484	D		
Common Stock	05/04/2007		S	500	D	\$ 84.09	293,984	D		
Common Stock	05/04/2007		S	1,700	D	\$ 84.1	292,284	D		
Common Stock	05/04/2007		S	500	D	\$ 84.11	291,784	D		
Common Stock	05/04/2007		S	200	D	\$ 84.13	291,584	D		

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Common Stock	05/04/2007	S	400	D	\$ 84.14	291,184	D
Common Stock	05/04/2007	S	300	D	\$ 84.15	290,884	D
Common Stock	05/04/2007	S	100	D	\$ 84.17	290,784	D
Common Stock	05/04/2007	S	200	D	\$ 84.19	290,584	D
Common Stock	05/04/2007	S	1,728	D	\$ 84.2	288,856	D
Common Stock	05/04/2007	S	600	D	\$ 84.21	288,256	D
Common Stock	05/04/2007	S	1,500	D	\$ 84.22	286,756	D
Common Stock	05/04/2007	S	900	D	\$ 84.23	285,856	D
Common Stock	05/04/2007	S	1,300	D	\$ 84.24	284,556	D
Common Stock	05/04/2007	S	1,300	D	\$ 84.25	283,256	D
Common Stock	05/04/2007	S	1,500	D	\$ 84.26	281,756	D
Common Stock	05/04/2007	S	900	D	\$ 84.27	280,856	D
Common Stock	05/04/2007	S	400	D	\$ 84.28	280,456	D
Common Stock	05/04/2007	S	1,400	D	\$ 84.29	279,056	D
Common Stock	05/04/2007	S	1,050	D	\$ 84.3	278,006	D
Common Stock	05/04/2007	S	1,700	D	\$ 84.31	276,306	D
Common Stock	05/04/2007	S	700	D	\$ 84.32	275,606	D
Common Stock	05/04/2007	S	1,000	D	\$ 84.33	274,606	D
Common Stock	05/04/2007	S	500	D	\$ 84.34	274,106	D
Common Stock	05/04/2007	S	1,300	D	\$ 84.35	272,806	D
	05/04/2007	S	374	D		272,432	D

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Common Stock					\$ 84.36		
Common Stock	05/04/2007	S	1,400	D	\$ 84.37	271,032	D
Common Stock	05/04/2007	S	100	D	\$ 84.38	270,932	D
Common Stock	05/04/2007	S	300	D	\$ 84.39	270,632	D
Common Stock	05/04/2007	S	2,300	D	\$ 84.4	268,332	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	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Title	and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transaction	orNumber	Expiration D	ate	Amoun	t of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day	/Year)	Underly	ying	Security	Secur
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivativ	e`		Securiti	ies	(Instr. 5)	Bene
	Derivative			,	Securities	•		(Instr. 3	3 and 4)		Owne
	Security				Acquired				,		Follo
	2000				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						(IIIsti
					4, and 5)						
					1, 4114 5)						
								I	Amount		
						D-4-	F	C	or		
						Date	Expiration	Title 1	Number		
						Exercisable	Date	(of		
				Code V	(A) (D)			5	Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
r	Director	10% Owner	Officer	Other			
KEYSER RICHARD L							

100 GRAINGER PARKWAY

LAKE FOREST, IL 60045-5201

Chairman and CEO

Signatures

L. M. Trusdell, as attorney-in-fact 05/07/2007

Reporting Owners 3

**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).

Remarks:

This is the second of four Forms 4 to report all May 4, 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