GRAINGER W W INC

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Form 4 or

obligations

may continue.

Form 5

Form 4 May 08, 2007

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

3235-0287

January 31,

2005

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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 * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading KEYSER RICHARD L Issuer Symbol GRAINGER W W INC [GWW] (Check all applicable) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title Other (specify 100 GRAINGER PARKWAY 05/07/2007 below) Chairman and CEO (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 Form filed by More than One Reporting LAKE FOREST, IL 60045-5201 Person

(City)	(State)	(Zip) Tabl	e I - Non-E	Derivative :	Securi	ties Acqu	ired, Disposed of	, or Beneficial	y 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)	(A)		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	05/07/2007		M	29,952	A	\$ 37.5	270,909	D	
Common Stock	05/07/2007		M	8,100	A	\$ 37.5	279,009	D	
Common Stock	05/07/2007		S	500	D	\$ 83.24	278,509	D	
Common Stock	05/07/2007		S	400	D	\$ 83.25	278,109	D	
Common Stock	05/07/2007		S	352	D	\$ 83.26	277,757	D	

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Common Stock	05/07/2007	S	200	D	\$ 83.27	277,557	D
Common Stock	05/07/2007	S	300	D	\$ 83.28	277,257	D
Common Stock	05/07/2007	S	100	D	\$ 83.29	277,157	D
Common Stock	05/07/2007	S	600	D	\$ 83.3	276,557	D
Common Stock	05/07/2007	S	700	D	\$ 83.31	275,857	D
Common Stock	05/07/2007	S	600	D	\$ 83.32	275,257	D
Common Stock	05/07/2007	S	400	D	\$ 83.33	274,857	D
Common Stock	05/07/2007	S	210	D	\$ 83.34	274,647	D
Common Stock	05/07/2007	S	390	D	\$ 83.35	274,257	D
Common Stock	05/07/2007	S	700	D	\$ 83.36	273,557	D
Common Stock	05/07/2007	S	300	D	\$ 83.37	273,257	D
Common Stock	05/07/2007	S	1,100	D	\$ 83.38	272,157	D
Common Stock	05/07/2007	S	600	D	\$ 83.39	271,557	D
Common Stock	05/07/2007	S	200	D	\$ 83.4	271,357	D
Common Stock	05/07/2007	S	500	D	\$ 83.41	270,857	D
Common Stock	05/07/2007	S	500	D	\$ 83.42	270,357	D
Common Stock	05/07/2007	S	100	D	\$ 83.46	270,257	D
Common Stock	05/07/2007	S	200	D	\$ 83.49	270,057	D
Common Stock	05/07/2007	S	800	D	\$ 83.5	269,257	D
Common Stock	05/07/2007	S	200	D	\$ 83.51	269,057	D
	05/07/2007	S	100	D		268,957	D

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Common Stock					\$ 83.52		
Common Stock	05/07/2007	S	300	D	\$ 83.53	268,657	D
Common Stock	05/07/2007	S	300	D	\$ 83.54	268,357	D
Common Stock	05/07/2007	S	500	D	\$ 83.55	267,857	D
Common Stock	05/07/2007	S	200	D	\$ 83.56	267,657	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)

 $\label{thm:convergence} \begin{tabular}{ll} Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned \\ (e.g., puts, calls, warrants, options, convertible securities) \end{tabular}$

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. Transactic Code (Instr. 8)	5. Number of orDerivative 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
Option	\$ 42.8125					03/01/2003	02/28/2010	Common Stock	20,100
Option	\$ 43.5					04/26/2003	04/25/2010	Common Stock	80,930
Option	\$ 43.5					<u>(1)</u>	04/25/2010	Common Stock	12,140
Option	\$ 37.5	05/07/2007		M	29,952	04/25/2004	04/24/2011	Common Stock	29,952
Option	\$ 37.5	05/07/2007		M	8,100	04/25/2007	04/24/2011	Common Stock	8,100
Option	\$ 54.61					04/24/2005	04/23/2012	Common Stock	175,000
Option	\$ 45.5					04/30/2006	04/29/2013	Common Stock	174,000
Option	\$ 54.14					04/28/2007	04/27/2014		81,000

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				Common Stock	
Option	\$ 52.29	04/27/2008	04/26/2015	Common Stock	90,000
Option	\$ 76.61	04/26/2009	04/25/2016	Common Stock	80,000
Option	\$ 83.08	04/25/2010	04/24/2017	Common Stock	80,000

Reporting Owners

Reporting Owner Name / Address Relationships

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 05/08/2007

**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) Exercisable in four equal annual installments beginning 4/26/2001.

Remarks:

This is the first of three Forms 4 to report all May 7, 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.

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