GRAINGER W W INC

Check this box

Form 4 April 27, 2006

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

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

if no longer

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).

(Last)

(City)

Common

Stock

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * LOIZZO LARRY J

2. Issuer Name and Ticker or Trading Symbol

GRAINGER W W INC [GWW]

5. Relationship of Reporting Person(s) to Issuer

(Middle)

(Zip)

(Check all applicable)

100 GRAINGER PARKWAY

(First)

(Street)

(State)

3. Date of Earliest Transaction

(Month/Day/Year)

X_ Officer (give title

10% Owner Other (specify

04/26/2006

below) Senior Vice President

Director

below)

4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Reneficially Owned

LAKE FOREST, IL 60045-5201

		Table	ic I from Defivative Securities required, Disposed of, or Deficiently Owned						
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities	5. Amount of	6. Ownership	7. Nature of		
Security	(Month/Day/Year)	Execution Date, if	Transactio	onAcquired (A) or	Securities	Form: Direct	Indirect		
(Instr. 3)		any	Code	Disposed of (D)	Beneficially	(D) or	Beneficial		
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned	Indirect (I)	Ownership		
					Following	(Instr. 4)	(Instr. 4)		
				(4)	Reported				
				(A)	Transaction(s)				
				٥r					

(Instr. 3 and 4) Code V Amount (D) Price

2,500 04/26/2006 A \$0 29,500 D (1)

Common 5,000 04/26/2006 \$0 D A 34,500 (1) Stock

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

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SEC 1474 (9-02)

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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)	e 3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transacti Code (Instr. 8)	5. Number of iorDerivative Securities Acquired (A) or Disposed (D) (Instr. 3, 4, and 5)	Expiration Day/ (Month/Day/	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	/ (A) (I	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Option	\$ 35.4375					08/07/1999	9 08/06/2006	Common Stock	4,440	
Option	\$ 37.25					04/30/2000	04/29/2007	Common Stock	8,060	
Option	\$ 51.6875					04/29/2003	1 04/28/2008	Common Stock	7,180	
Option	\$ 48.625					04/28/2002	2 04/27/2009	Common Stock	8,790	
Option	\$ 42.8125					03/01/2003	3 02/28/2010	Common Stock	760	
Option	\$ 43.5					04/26/2003	3 04/25/2010	Common Stock	10,120	
Option	\$ 37.5					04/25/2004	4 04/24/2011	Common Stock	15,600	
Option	\$ 54.61					04/24/2005	5 04/23/2012	Common Stock	15,000	
Option	\$ 45.5					04/30/2000	6 04/29/2013	Common Stock	15,000	
Option	\$ 54.14					04/28/2007	7 04/27/2014	Common Stock	15,000	
Option	\$ 52.29					04/27/2008	8 04/26/2015	Common Stock	9,000	
Option	\$ 76.61	04/26/2006		A	10,000	04/26/2009	9 04/25/2016	Common Stock	10,000	

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer

Director 10% Owner Officer Other

Senior Vice President

Reporting Owners 2

LOIZZO LARRY J 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201

Signatures

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

04/27/2006

**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) Award of restricted stock units to be settled after vesting by the delivery of unrestricted shares of common stock on a one-for-one basis. 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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