#### **GRAINGER W W INC**

Form 4

November 21, 2006

## FORM 4

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

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005
Estimated average

0.5

**OMB APPROVAL** 

Form 4 or 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

response...

burden hours per

1(b).

(City)

(State)

(Print or Type Responses)

1. Name and Address of Reporting Person * GRAINGER DAVID W			2. Issuer Name <b>and</b> Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			GRAINGER W W INC [GWW]	(Check all applicable)		
(Last)	(Last) (First) (Middle)		3. Date of Earliest Transaction			
100 GRAINGER PARKWAY		/AY	(Month/Day/Year) 11/20/2006	XDirector10% Owner Officer (give title below) Other (specify below)		
(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		
LAKE FOREST, IL 60045-5201				Form filed by More than One Reporting Person		

## (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1.Title of Security (Instr. 3)	2. Transaction Date 2A. Deemed (Month/Day/Year) Execution Date, if any (Month/Day/Year)		Transaction(A) or Disposed of (D)				5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
			Code V	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	(Instr. 4)	
Common Stock	11/20/2006		S	350	D	\$ 73.01	786,080	I	See Footnote (1)	
Common Stock	11/20/2006		S	100	D	\$ 73.02	785,980	I	See Footnote (1)	
Common Stock	11/20/2006		S	300	D	\$ 73.03	785,680	I	See Footnote (1)	
Common Stock	11/20/2006		S	150	D	\$ 73.05	785,530	I	See Footnote	

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Common Stock	11/20/2006	S	250	D	\$ 73.06	785,280	I	See Footnote (1)
Common Stock	11/20/2006	S	250	D	\$ 73.07	785,030	I	See Footnote
Common Stock	11/20/2006	S	150	D	\$ 73.08	784,880	I	See Footnote
Common Stock	11/20/2006	S	150	D	\$ 73.09	784,730	I	See Footnote
Common Stock	11/20/2006	S	350	D	\$ 73.1	784,380	I	See Footnote (1)
Common Stock	11/20/2006	S	350	D	\$ 73.11	784,030	I	See Footnote (1)
Common Stock	11/20/2006	S	50	D	\$ 73.12	783,980	I	See Footnote (1)
Common Stock	11/20/2006	S	100	D	\$ 73.13	783,880	I	See Footnote (1)
Common Stock	11/20/2006	S	50	D	\$ 73.14	783,830	I	See Footnote (1)
Common Stock	11/20/2006	S	150	D	\$ 73.15	783,680	I	See Footnote (1)
Common Stock	11/20/2006	S	250	D	\$ 73.16	783,430	I	See Footnote (1)
Common Stock	11/20/2006	S	1,359	D	\$ 73.17	782,071	I	See Footnote
Common Stock	11/20/2006	S	2,200	D	\$ 73.18	779,871	I	See Footnote (1)
Common Stock	11/20/2006	S	1,100	D	\$ 73.19	778,771	I	See Footnote
Common Stock	11/20/2006	S	950	D	\$ 73.2	777,821	I	See Footnote

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								<u>(1)</u>
Common Stock	11/20/2006	S	1,000	D	\$ 73.21	776,821	I	See Footnote
Common Stock	11/20/2006	S	250	D	\$ 73.22	776,571	I	See Footnote (1)
Common Stock	11/20/2006	S	400	D	\$ 73.23	776,171	I	See Footnote (1)
Common Stock	11/20/2006	S	2,500	D	\$ 73.24	773,671	I	See Footnote
Common Stock	11/20/2006	S	450	D	\$ 73.25	773,221	I	See Footnote
Common Stock	11/20/2006	S	650	D	\$ 73.26	772,571	I	See Footnote
Common Stock	11/20/2006	S	800	D	\$ 73.27	771,771	I	See Footnote
Common Stock	11/20/2006	S	200	D	\$ 73.28	771,571	I	See Footnote
Common Stock	11/20/2006	S	300	D	\$ 73.29	771,271	I	See Footnote
Common Stock	11/20/2006	S	100	D	\$ 73.33	771,171	I	See Footnote (1)

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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 Exercisable and	7. Title and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onNumber	Expiration Date	Amount of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/Year)	Underlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e	Securities	(Instr. 5)	Bene
	Derivative				Securities	8	(Instr. 3 and 4)		Own

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Security

Acquired
(A) or
Disposed
of (D)
(Instr. 3,
4, and 5)

Code V (A) (D) Date Expiration Title Amount
Exercisable Date or

or Number of Shares Follo

Repo

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## **Reporting Owners**

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

## **Signatures**

L. M. Trusdell, as attorney-in-fact 11/21/2006

\*\*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) 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 is the second of two Forms 4 to report all November 20, 2006 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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