

GRAINGER W W INC  
Form 4  
August 03, 2006

**FORM 4**

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

OMB APPROVAL

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

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
SMITH HAROLD B

(Last) (First) (Middle)  
100 GRAINGER PARKWAY  
(Street)

LAKE FOREST, IL 60045-5201

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
GRAINGER W W INC [GWW]

3. Date of Earliest Transaction  
(Month/Day/Year)  
08/02/2006

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**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. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	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 Ownership (Instr. 4)
Common Stock	08/02/2006		P	9,650 A	\$ 61.9 10,000	I	See footnote (2)
Common Stock	08/02/2006		P	150 A	\$ 62.41 10,150	I	See footnote (2)
Common Stock	08/02/2006		P	250 A	\$ 62.42 10,400	I	See footnote (2)
Common Stock	08/02/2006		P	300 A	\$ 62.43 10,700	I	See footnote (2)

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Common Stock	08/02/2006	P	500	A	\$ 62.45	11,200	I	See footnote (2)
Common Stock	08/02/2006	P	800	A	\$ 62.46	12,000	I	See footnote (2)
Common Stock	08/02/2006	P	700	A	\$ 62.47	12,700	I	See footnote (2)
Common Stock	08/02/2006	P	600	A	\$ 62.48	13,300	I	See footnote (2)
Common Stock	08/02/2006	P	450	A	\$ 62.49	13,750	I	See footnote (2)
Common Stock	08/02/2006	P	1,450	A	\$ 62.5	15,200	I	See footnote (2)
Common Stock	08/02/2006	P	350	A	\$ 62.51	15,550	I	See footnote (2)
Common Stock	08/02/2006	P	100	A	\$ 62.52	15,650	I	See footnote (2)
Common Stock	08/02/2006	P	50	A	\$ 62.53	15,700	I	See footnote (2)
Common Stock	08/02/2006	P	600	A	\$ 62.54	16,300	I	See footnote (2)
Common Stock	08/02/2006	P	50	A	\$ 62.56	16,350	I	See footnote (2)
Common Stock	08/02/2006	P	300	A	\$ 62.57	16,650	I	See footnote (2)
Common Stock	08/02/2006	P	700	A	\$ 62.58	17,350	I	See footnote (2)
Common Stock	08/02/2006	P	1,600	A	\$ 62.59	18,950	I	See footnote (2)
Common Stock	08/02/2006	P	250	A	\$ 62.6	19,200	I	See footnote

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								(2)	
Common Stock	08/02/2006		P	150	A	\$ 62.65	19,350	I	See footnote (2)
Common Stock	08/02/2006		P	100	A	\$ 62.66	19,450	I	See footnote (2)
Common Stock	08/02/2006		P	100	A	\$ 62.67	19,550	I	See footnote (2)
Common Stock	08/02/2006		P	100	A	\$ 62.7	19,650	I	See footnote (2)
Common Stock	08/02/2006		P	100	A	\$ 62.71	19,750	I	See footnote (2)
Common Stock	08/02/2006		P	250	A	\$ 62.75	20,000	I	See footnote (2)

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

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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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative 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)	8. Price or Value of Underlying Securities (Instr. 3 and 4)	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option	\$ 37.25					04/30/2000	04/29/2007	Common Stock	2,200
Stock	\$ 51.6875					04/29/2001	04/28/2008	Common	1,460

