SMITH HAROLD B

Form 4

December 02, 2004

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL OMB

Number:

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Check this box

SECURITIES

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).

(Last)

(City)

Common

(Print or Type Responses)

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

(First)

2. Issuer Name and Ticker or Trading Symbol

GRAINGER W W INC [GWW]

5. Relationship of Reporting Person(s) to

Issuer

(Middle)

(Zip)

3. Date of Earliest Transaction

X Director 10% Owner

(Check all applicable)

(Month/Day/Year)

12/01/2004

Officer (give title Other (specify below)

6. Individual or Joint/Group Filing(Check

Applicable Line)

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

Person

100 GRAINGER PARKWAY (Street)

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

LAKE FOREST, IL 60045-5201

(State)

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

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) Code (Month/Day/Year)

4. Securities TransactionAcquired (A) or Disposed of (D) (Instr. 8) (Instr. 3, 4 and 5) 5. Amount of 6. Ownership 7. Nature of Securities Form: Direct Indirect Beneficially (D) or Beneficial Owned Indirect (I) Ownership Following (Instr. 4) (Instr. 4)

Reported

Transaction(s) (Instr. 3 and 4)

or Code V Amount (D) Price

(A)

12,540 D

Stock

Common See 8,000 I Stock footnote (1)

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)

(9-02)

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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. orNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exerci Expiration Da (Month/Day/Y	te	7. Title and A Underlying S (Instr. 3 and	Securities	8. Pri Deriv Secur (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Units	<u>(2)</u>	12/01/2004		A	20	<u>(3)</u>	(3)	Common Stock	20	\$ 6
Stock Option	\$ 37.25					04/30/2000	04/29/2007	Common Stock	2,200	
Stock Option	\$ 51.6875					04/29/2001	04/28/2008	Common Stock	1,460	
Stock Option	\$ 48.625					04/28/1999	04/27/2009	Common Stock	1,860	
Stock Option	\$ 43.5					04/26/2000	04/25/2010	Common Stock	2,070	
Stock Option	\$ 37.5					04/25/2001	04/24/2011	Common Stock	2,400	
Stock Option	\$ 54.61					04/24/2002	04/23/2012	Common Stock	1,650	
Stock Option	\$ 45.5					04/30/2003	04/29/2013	Common Stock	1,980	
Stock Option	\$ 54.14					04/28/2004	04/27/2014	Common Stock	1,670	

Reporting Owners

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

Signatures

L. M. Trusdell, as attorney-in-fact 12/01/2004

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**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 a trust of which I am a co-trustee and in which I have a contingent beneficial interest.
- (2) 1-for-1
- (3) The Stock Units are expected to settle in cash following termination of service as a director.

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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