#### SMITH HAROLD B

Form 4

February 24, 2010

# FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

**OMB** 

3235-0287 Number:

January 31, Expires: 2005

**OMB APPROVAL** 

Estimated average burden hours per response... 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations

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 may continue. 30(h) of the Investment Company Act of 1940

See Instruction 1(b).

(Last)

(Print or Type Responses)

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

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

below)

(Middle)

GRAINGER W W INC [GWW]

(Check all applicable)

100 GRAINGER PARKWAY

(First)

(Street)

3. Date of Earliest Transaction

(Month/Day/Year)

\_X\_\_ Director Officer (give title

10% Owner Other (specify

02/23/2010

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

#### LAKE FOREST, IL 60045-5201

(City)	(State)	(Zip) Tabl	le I - Non-I	Derivative	Secu	rities Acqu	ired, Disposed of	, or Beneficiall	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)	3. 4. Securities Acquired Fransaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5)			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	02/23/2010		M	2,070	A	\$ 43.5	23,912	D	
Common Stock	02/23/2010		F	869	D	\$ 103.64	23,043	D	
Common Stock	02/23/2010		M	2,400	A	\$ 37.5	25,443	D	
Common Stock	02/23/2010		F	869	D	\$ 103.64	24,574	D	
Common Stock	02/23/2010		M	1,650	A	\$ 54.61	26,224	D	
	02/23/2010		F	870	D		25,354	D	

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Common	\$
Stock	103.64

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

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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 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 out 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Units	(2)					(3)	<u>(3)</u>	Common Stock	55
Stock Option	\$ 43.5	02/23/2010		M	2,070	04/26/2000	04/25/2010	Common Stock	2,070
Stock Option	\$ 37.5	02/23/2010		M	2,400	04/25/2001	04/24/2011	Common Stock	2,400
Stock Option	\$ 54.61	02/23/2010		M	1,650	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			
	X						

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SMITH HAROLD B 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201

## **Signatures**

C. L. Kogl, as attorney-in-fact

02/24/2010

\*\*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 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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