ANDERSON BRIAN P
Form 4
October 29, 2009

FORM 4

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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

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 * **ANDERSON BRIAN P**	2. Issuer Name **and** Ticker or Trading Symbol **GRAINGER W W INC [GWW]**	5. Relationship of Reporting Person(s) to Issuer
(Last) (First) (Middle)	3. Date of Earliest Transaction (Month/Day/Year) 10/28/2009	(Check all applicable) __X__ Director _____ 10% Owner _____ Officer (give title below) _____ Other (specify below)
100 GRAINGER PARKWAY (Street)	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)		

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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	10/28/2009		M		2,070	A	$ 43.5	6,410	D	
Common Stock	10/28/2009		S		2,070	D	$ 94.09	4,340	D	

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)

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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. 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. D S (I
								Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
				Code	V	(A)	(D)					
Stock Units	(1)							(2)	(2)	Common Stock	9,034	
Stock Option	$ 43.5	10/28/2009		M			2,070	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
ANDERSON BRIAN P 100 GRAINGER PARKWAY LAKE FOREST, IL 60045-5201	X			

Signatures

C. L. Kogl, as attorney-in-fact	10/29/2009
**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) 1-for-1

(2) 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.

Explanation of Responses: