STRATTON FREDERICK P JR

Form 4

August 25, 2009

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

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if no longer subject to Section 16. Form 4 or Form 5 obligations may continue.

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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).

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * STRATTON FREDERICK P JR	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
	WISCONSIN ENERGY CORP [WEC]	(Check all applicable)		
(Last) (First) (Middle) 231 WEST MICHIGAN STREET	3. Date of Earliest Transaction (Month/Day/Year) 08/21/2009	_X Director 10% Owner Officer (give title Other (specify below)		
(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		
MILWAUKEE,, WI 53203		Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tab	ole I - Non-	Derivativ	e Secu	ırities Acqui	red, 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. Transactic Code (Instr. 8)	Transaction Disposed of (D) Code (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)
Common Stock	08/21/2009		Code V M	Amount 5,000	(D)	Price \$ 19.9687	16,863.5225 (1)	D	
Common Stock	08/21/2009		S	2,905	D	\$ 45.2632	13,958.5225 (1)	D	
Common Stock	08/21/2009		S	200	D	\$ 45.275	13,758.5225 (1)	D	
Common Stock	08/21/2009		S	100	D	\$ 45.3	13,658.5225 (1)	D	
Common Stock	08/21/2009		S	314	D	\$ 45.28	13,344.5225 (1)	D	

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Common Stock	08/21/2009	S	100	D	\$ 45.2875	13,244.5225 (1)	D	
Common Stock						4,000	I	by Spouse
Common Stock						600	I	by Trust

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

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(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 of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	tive Expiration Date (Month/Day/Year) of		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 Option (right to buy)	\$ 19.9687	08/21/2009		M	5,000	04/03/2001(2)	04/03/2010	Common Stock	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships						
•	Director	10% Owner	Officer	Other			
STRATTON FREDERICK P JR 231 WEST MICHIGAN STREET MILWAUKEE,, WI 53203	X						
Cianaturas							

Signatures

/s/ Joshua M. Erickson, as
Attorney-in-Fact 08/25/2009

**Signature of Reporting Person Date

Reporting Owners 2

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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) Includes shares acquired pursuant to a dividend reinvestment feature of Wisconsin Energy Corporation's Stock Plus Investment Plan in transactions exempt from Section 16 pursuant to Rule 16a-11.
- (2) Vested in three equal annual installments beginning on this date.

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.