#### KLAPPA GALE E

Form 4

August 31, 2010

### FORM 4

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

OMB 3235-0287 Number:

burden hours per

response...

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

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

January 31, Expires: 2005 Estimated average

0.5

**OMB APPROVAL** 

Form 5 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).

(Print or Type Responses)

1. Name and Address of Reporting Per KLAPPA GALE E	2. Issuer Name and Ticker or Trading Symbol WISCONSIN ENERGY CORP	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)		
	[WEC]			
(Last) (First) (Mid 231 WEST MICHIGAN STRE	(Month/Day/Year)	_X_ Director 10% Owner _X_ Officer (give title Other (specify below) Chairman, President, and CEO		
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
MILWAUKEE,, WI 53203	Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tab	le I - Non-I	Derivative	Secur	ities Acqu	uired, 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)	Code (Instr. 8)	4. Securit or(A) or Dis (Instr. 3, 4	sposed 4 and 3 (A) or	of (D)	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	08/27/2010		Code V M	Amount 35,000	(D)	\$ 25.31	80,414.5555 (1)	D	
Common Stock	08/27/2010		S	1,000	D	\$ 56.2	79,414.5555 (1)	D	
Common Stock	08/27/2010		S	9,000	D	\$ 56.23	70,414.5555 (1)	D	
Common Stock	08/27/2010		S	15,000	D	\$ 56.35	55,414.5555 (1)	D	
Common Stock	08/27/2010		S	10,000	D	\$ 56.53	45,414.5555 (1)	D	

Common Stock

 $1,358.832 \frac{(2)}{}$  I

**ERSP** 

(9-02)

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

Persons who respond to the collection of SEC 1474 information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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)	Securities		sactionDerivative Securities  Acquired (A) or Disposed of (D) (Instr. 3, 4,		6. Date Exercisab Expiration Date (Month/Day/Year		7. Title and A Underlying S (Instr. 3 and	Securities
				Code V	(A) (D		Date Exercisable	Expiration Date	Title	Amount or Number of Share		
Stock Option (right to buy)	\$ 25.31	08/27/2010		M	35,0	000	12/31/2004(3)	04/14/2013	Common Stock	35,000		

### **Reporting Owners**

Reporting Owner Name / Address	Relationships							
	Director	10% Owner	Officer	Other				
KLAPPA GALE E			Chairman,					
231 WEST MICHIGAN STREET	X		President, and					
MILWAUKEE,, WI 53203			CEO					

# **Signatures**

\s\Joshua M. Erickson, as 08/31/2010 Attorney-in-Fact

> \*\*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).
- Includes shares acquired pursuant to a dividend reinvestment feature of Wisconsin Energy Corporation's Stock Plus Investment Plan in **(1)** transactions exempt from Section 16 pursuant to Rule 16a-11.
- (2) Includes shares acquired under Wisconsin Energy Corporation's Employee Retirement Savings Plan (ERSP) in transactions exempt from Section 16(b) pursuant to Rule 16b-3(c) and exempt from reporting pursuant to Rule 16a-3(f)(1)(i)(B). The number of shares in the ERSP

Reporting Owners 2

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attributable to any one participant varies with the price of the Common Stock. The information in this report is based on a plan statement dated as of July 31, 2010.

(3) By action of the Compensation Committee on December 28, 2004, all options granted to employees of the Issuer, including the reporting person, in 2002, 2003 and 2004, and not otherwise exercisable, became exercisable as of December 31, 2004.

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.