KLAPPA GALE E

Form 4

August 20, 2010

FORM 4

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

OMB 3235-0287

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

Number: January 31, Expires: 2005

OMB APPROVAL

Form 4 or Form 5 obligations **SECURITIES**

Estimated average burden hours per response... 0.5

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 Person * KLAPPA GALE E		2. Issuer Name and Ticker or Trading Symbol WISCONSIN ENERGY CORP [WEC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)
(Last) (First) 231 WEST MICHIGA	(Middle) N STREET	3. Date of Earliest Transaction (Month/Day/Year) 08/18/2010	_X_ Director 10% Owner _X_ Officer (give title Other (specify below) Chairman, President, and CEO
(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 53	3203		Form filed by More than One Reporting Person

(City)	(State)	(Zip) Tab	le I - Non-I	Derivative	Secur	ities Acq	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)	3. Transaction Code (Instr. 8)	4. Securit or(A) or Dis (Instr. 3,	sposed	d of (D) Securities 5) Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)	(Instr. 4)	
Common Stock	08/18/2010		M	16,064	A	\$ 25.31	61,478.5555 (1)	D	
Common Stock	08/18/2010		S	3,501	D	\$ 56.23	57,977.5555 (1)	D	
Common Stock	08/18/2010		S	12,563	D	\$ 56.27	45,414.5555 (1)	D	
Common Stock							1,358.832 (2)	I	ERSP

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 of Derivative Securities Acquired (A or Disposed (D) (Instr. 3, 4, and 5)	Expiration Date (Month/Day/Yea)		7. Title and A Underlying S (Instr. 3 and 4	Securities
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Stock Option (right to buy)	\$ 25.31	08/18/2010		M	16,06	4 12/31/2004 <u>(3)</u>	04/14/2013	Common Stock	16,064

Reporting Owners

Reporting Owner Name / Address	Relationships
Reporting Owner Hame / Address	

	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 Attorney-in-Fact

08/20/2010 Date

**Signature of Reporting Person

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 transactions exempt from Section 16 pursuant to Rule 16a-11.
- 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 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.
- 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.

Reporting Owners 2

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