DICKSON STEPHEN P

Form 4

August 18, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB APPROVAL OMB

3235-0287 Number:

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

Check this box

SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations may continue.

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 * DICKSON STEPHEN P			2. Issuer Name and Ticker or Trading Symbol WISCONSIN ENERGY CORP [WEC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) 231 WEST M	(Last) (First) (Middle) 231 WEST MICHIGAN STREET		3. Date of Earliest Transaction (Month/Day/Year) 08/17/2010	Director 10% Owner Scheme Other (specify below) Vice President and Controller		
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Che Applicable Line) _X_ Form filed by One Reporting Person		
MILWAUKE	E,, WI 53203	3		Form filed by More than One Reporting Person		

(City)	(State)	(Zip) Tabl	e I - Non-D	erivative (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)	3. Transactio Code (Instr. 8)	4. Securities Acor(A) or Disposed (Instr. 3, 4 and 5) (A) or Amount (D)		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	08/17/2010		M	19,190	A	\$ 25.41	44,602.9347 (1)	D	
Common Stock	08/17/2010		S	19,190	D	\$ 55.33	25,412.9347 (1)	D	
Common Stock							7,221.352 <u>(2)</u>	I	ERSP

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

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number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4. 5. Number of		6. Date Exercisable and		7. Title and Amount o	
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionDerivative		Expiration Date		Underlying Securities	
Security	or Exercise		any	Code	Securities	(Month/Day/Year	(Instr. 3 and 4)		
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acquired (A)	A)			
	Derivative				or Disposed of				
	Security				(D)				
				(Instr. 3, 4,					
					and 5)				
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
				Code v	(A) (D)				or snarc
Stock Option (right to buy)	\$ 25.41	08/17/2010		M	19,190	12/31/2004(3)	01/02/2013	Common Stock	19,190

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

DICKSON STEPHEN P 231 WEST MICHIGAN STREET MILWAUKEE,, WI 53203

Vice President and Controller

Signatures

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

08/18/2010

**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) 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.
- (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.

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