KUESTER FREDERICK D

Form 4

March 18, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

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OMB APPROVAL

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

may continue. See Instruction

Check this box

if no longer

Section 16.

Form 4 or

obligations

Form 5

subject to

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading KUESTER FREDERICK D Issuer Symbol WISCONSIN ENERGY CORP (Check all applicable) [WEC] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner Other (specify _X__ Officer (give title (Month/Day/Year) below) 231 W. MICHIGAN STREET 03/16/2010 **Executive Vice President** (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting MILWAUKEE,, WI 53203 Person

(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. Transactic Code (Instr. 8)	4. Securit on(A) or Dis (Instr. 3, 4	sposed	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	03/16/2010		M	25,000 (1)	A	\$ 31.07	49,943.6038 (2)	D		
Common Stock	03/16/2010		S	25,000 (1)	D	\$ 50.5	24,943.6038 (2)	D		
Common Stock	03/17/2010		M	25,000 (1)	A	\$ 31.07	49,943.6038 (2)	D		
Common Stock	03/17/2010		S	25,000 (1)	D	\$ 51	24,943.6038 (2)	D		
Common Stock							1,209.921 (3)	I	ERSP	

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

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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. Transactic Code (Instr. 8)	5. Number of orDerivative 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 o Underlying Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share
Stock Option (right to buy)	\$ 31.07	03/16/2010		M	25,000	12/31/2004(4)	10/13/2013	Common Stock	25,000
Stock Option (right to buy)	\$ 31.07	03/17/2010		M	25,000	12/31/2004(4)	10/13/2013	Common Stock	25,000

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

KUESTER FREDERICK D 231 W. MICHIGAN STREET MILWAUKEE,, WI 53203

Executive Vice President

Signatures

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

03/18/2010

**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) This transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on February 26, 2010.
- (2) 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.

Reporting Owners 2

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- 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 February 28, 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. 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.