#### KUESTER FREDERICK D

Form 4

September 22, 2010

# FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

**OMB APPROVAL** 

3235-0287

Expires:

January 31, 2005

0.5

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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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

obligations may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * KUESTER FREDERICK D			2. Issuer Name <b>and</b> Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			WISCONSIN ENERGY CORP [WEC]	(Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	Director 10% Owner		
231 W. MICHIGAN STREET			(Month/Day/Year)	_X_ Officer (give title Other (speci below) below) Executive Vice President		
			09/20/2010			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Cho		
			Filed(Month/Day/Year)	Applicable Line)		
				_X_ Form filed by One Reporting Person		
MILWAUKE	E,, WI 5320	03		Form filed by More than One Reporting Person		

							.501		
(City)	(State)	(Zip) Tal	ble I - Non	-Derivative	Secur	ities Acquir	ed, Disposed of, o	r 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. Securities or Disposed of (Instr. 3, 4)	of (D)	uired (A) or	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	09/20/2010		M	105,000	A	\$ 33.435	130,111.094 (2)	D	
Common Stock	09/20/2010		S	35,000 (1)	D	\$ 57.1466	95,111.094 (2)	D	
Common Stock	09/20/2010		S	35,000 (1)	D	\$ 57.1584	60,111.094 (2)	D	
Common Stock	09/20/2010		S	35,000 (1)	D	\$ 58	25,111.094 (2)	D	
Common Stock							1,228.495 (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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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)	Secu Acqu Disp	umber of vative rities nired (A) or osed of (D) r. 3, 4, and	6. Date Exercisab Expiration Date (Month/Day/Year		7. Title and A Underlying S (Instr. 3 and	Securitie
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amour Numb Shares
Stock Option (right to buy)	\$ 33.435	09/20/2010		M		105,000	12/31/2004(4)	01/02/2014	Common Stock	105,0

## **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

09/22/2010

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).
- (1) This transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on August 19, 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.
- 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 August 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.

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