#### KUESTER FREDERICK D

Form 4

March 10, 2011

## FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB Number:

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Check this box

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. 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 WISCONSIN ENERGY CORP	5. Relationship of Reporting Person(s) to Issuer  (Check all applicable)			
			[WEC]	(Check an applicable)			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	Director 10% Owner Section Other (specify below)			
231 W. MICHIGAN STREET			03/09/2011	Executive Vice President & CFO			
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line)			
MILWAUKEE,, WI 53203				_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person			

		103011								
(City)	(State)	${\bf (Zip)} \qquad \qquad {\bf Table~I-Non-Derivative~Securities~Acquired, Disposed~of, or~Beneficially~Owned}$								
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired (A) Transaction Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)  (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	03/09/2011		Code V M	Amount 66,000	(D)	Price \$ 17.1	119,511.3982 (1)	D		
Common Stock	03/09/2011		S	64,700 (2)	D	\$ 31	54,811.3982 (1)	D		
Common Stock	03/09/2011		S	400 (2)	D	\$ 31.0025	54,411.3982 (1)	D		
Common Stock	03/09/2011		S	600 (2)	D	\$ 31.005	53,811.3982 (1)	D		
Common Stock	03/09/2011		S	300 (2)	D	\$ 31.01	53,511.3982 (1) (3)	D		

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

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(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. Transactic Code (Instr. 8)			6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (right to buy)	\$ 17.1 (5)	03/09/2011		M		66,000	01/18/2008	01/18/2015	Common Stock	66,000

## **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 & CFO

### **Signatures**

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

03/10/2011

\*\*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.
- (2) This transaction was effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 29, 2010.

Reporting Owners 2

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- On March 1, 2011, the common stock of Wisconsin Energy Corporation split 2-for-1, resulting in the reporting person's ownership of 26,755.6991 additional shares of directly held common stock and 1,255.226 additional shares of common stock indirectly held in Wisconsin Energy Corporation's Employee Retirement Savings Plan (ERSP).
- Includes shares acquired under the 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 March 2, 2011.
- (5) This option was previously reported as covering 67,000 remaining shares at an exercise price of \$34.20 per share, but was adjusted to reflect the 2-for-1 stock split that occurred on March 1, 2011.

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.