BOWLES BARBARA L

Form 4

January 05, 2011

FORM 4

Check this box

if no longer

subject to

Form 4 or

obligations

may continue.

Form 5

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

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Section 16.

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

See Instruction

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 **BOWLES BARBARA L** Issuer Symbol WISCONSIN ENERGY CORP (Check all applicable) [WEC] 3. Date of Earliest Transaction (Last) (First) (Middle) X_ Director 10% Owner Officer (give title Other (specify (Month/Day/Year) below) 231 WEST MICHIGAN STREET 01/03/2011 (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 6. Ownership 7. Nature of 1.Title of 2. Transaction Date 2A. Deemed 4. Securities 3. 5. Amount of Security (Month/Day/Year) Execution Date, if TransactionAcquired (A) or Securities Form: Direct Indirect (Instr. 3) Code Beneficially Beneficial Disposed of (D) (D) or any (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Ownership Indirect (I) Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) or (Instr. 3 and 4) Amount (D) Price Common 17,208.6726 01/03/2011 A 1.278 \$0 D Α (1) Stock

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

Persons who respond to the collection of **SEC 1474** information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

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

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1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Title a		8. Price of	9. Nu
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	execution Date, if any (Month/Day/Year)	Code (Instr. 8)	onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Date (Month/Day/Year)		Amount of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	Deriv Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	or Title N of	umber		

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

BOWLES BARBARA L
231 WEST MICHIGAN STREET X
MILWAUKEE,, WI 53203

Signatures

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

01/05/2011

**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.

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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