

BOWLES BARBARA L
 Form 4
 May 31, 2011

FORM 4

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF 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 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
BOWLES BARBARA L

2. Issuer Name and Ticker or Trading Symbol
**WISCONSIN ENERGY CORP
 [WEC]**

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction
 (Month/Day/Year)

Director 10% Owner
 Officer (give title below) Other (specify below)

231 WEST MICHIGAN STREET

05/26/2011

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

MILWAUKEE,, WI 53203

(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. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 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 | 05/26/2011 | | S | 100 D | \$ 31.1206 34,487.1678 (1) | D | |
| Common Stock | 05/26/2011 | | S | 100 D | \$ 31.1205 34,387.1678 (1) | D | |
| Common Stock | 05/26/2011 | | S | 100 D | \$ 31.12 34,287.1678 (1) | D | |
| Common Stock | 05/26/2011 | | S | 100 D | \$ 31.1203 34,187.1678 (1) | D | |
| Common Stock | 05/26/2011 | | S | 100 D | \$ 31.1208 34,087.1678 (1) | D | |

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| | | | | | | | |
|--------------|------------|---|-----|---|------------|------------------------|---|
| Common Stock | 05/26/2011 | S | 100 | D | \$ 31.121 | 33,987.1678 (1) | D |
| Common Stock | 05/26/2011 | S | 700 | D | \$ 31.1204 | 33,287.1678 (1) | D |
| Common Stock | 05/26/2011 | S | 700 | D | \$ 31.1209 | 32,587.1678 (1) (2) | D |

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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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. Transaction Code (Instr. 8) | 5. Number of Derivative 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 of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Nu... Deriv... Secur... Bene... Own... Follo... Repo... Trans... (Instr... |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| BOWLES BARBARA L 231 WEST MICHIGAN STREET MILWAUKEE,, WI 53203 | | X | | |

Signatures

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

05/31/2011

**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) On March 1, 2011, the common stock of Wisconsin Energy Corporation split 2-for-1, resulting in the reporting person's ownership of 17,293.5839 additional shares of directly held common stock.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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