Fleming James C Form 4 May 17, 2011

FORM 4

OMB APPROVAL

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

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16. Form 4 or

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

January 31, Expires: 2005

Form 5 obligations **SECURITIES**

Estimated average burden hours per response... 0.5

may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Fleming James C			2. Issuer Name and Ticker or Trading Symbol WISCONSIN ENERGY CORP [WEC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) 231 W. MICHI	(First) (Middle) MICHIGAN STREET		3. Date of Earliest Transaction (Month/Day/Year) 05/13/2011	Director 10% Owner _X Officer (give title below)		
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person		
MILWAUKEE,, WI 53203				Form filed by More than One Reporting 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. Securities Acquired (A) or orDisposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price			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	05/13/2011		M	123,000	A	\$ 23.8775	128,434	D		
Common Stock	05/13/2011		S	123,000	D	\$ 31.6	5,434 <u>(1)</u>	D		
Common Stock							1,629.56 <u>(1)</u> <u>(2)</u>	I	ERSP	

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

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number.

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 torDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)				7. Title and Amount of Underlying Securities (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount of Number of Shares
Stock Option (right to	\$ 23.8775 (3)	05/13/2011		M		123,000	01/03/2010	01/03/2017	Common Stock	123,00

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Fleming James C 231 W. MICHIGAN STREET MILWAUKEE., WI 53203

Executive VP & General Counsel

Signatures

buy)

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

05/17/2011

**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).
- On March 1, 2011, the common stock of Wisconsin Energy Corporation split 2-for-1, resulting in the reporting person's ownership of (1) 2,717 additional shares of directly held common stock and 815.197 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 April 30, 2011.
- (3) This option was previously reported as covering 61,500 shares at an exercise price of \$47.755 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.

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