AHEARNE JOHN F

Form 4

January 19, 2005

FORM 4

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

OMB

Check this box if no longer STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

3235-0287 Number: January 31, Expires: 2005

OMB APPROVAL

subject to Section 16. Form 4 or Form 5 obligations

may continue.

See Instruction

Estimated average burden hours per response... 0.5

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

SECURITIES

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 AHEARNE JOHN F Issuer Symbol WISCONSIN ENERGY CORP (Check all applicable) [WEC] _X__ Director (Last) (First) (Middle) 3. Date of Earliest Transaction 10% Owner Officer (give title _ Other (specify (Month/Day/Year) below) 231 WEST MICHIGAN STREET 01/18/2005 (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)	(Z1p)	Table I - Non-	Derivative Securities Acq	uired, Disposed o	of, or Beneficiall	y Owned
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Securities Acquired	5. Amount of	6. Ownership	7. Natur

1.1itle of	2. Transaction Date	2A. Deemed	3.	4. Securities	Acquired	5. Amount of	6. Ownership	/. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transaction(A) or Disposed of (D)			Securities	Form: Direct	Indirect
(Instr. 3)		any	Code (Instr. 3, 4 and 5)		Beneficially	(D) or	Beneficial	
		(Month/Day/Year)	(Instr. 8)			Owned	Indirect (I)	Ownership
						Following	(Instr. 4)	(Instr. 4)
						Reported		
				(A		Transaction(s)		
			Code V	Amount (D		(Instr. 3 and 4)		
Common Stock	01/18/2005		A	291 <u>(1)</u> A	\$ 34.38	8,613 (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 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 Derivative Security (Instr. 3)	2. Conversion or Exercise Price of	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transacti Code (Instr. 8)			ate	7. Title Amoun Under	int of lying ities	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene
	Derivative Security				Securities Acquired			(Instr.	3 and 4)		Owne Follo
					(A) or Disposed						Repo Trans
					of (D) (Instr. 3, 4, and 5)						(Instr
					4, and 3)				Amount		
						Date Exercisable	Expiration Date	Title	or Number of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
HEADNE IOHN E						

AHEARNE JOHN F
231 WEST MICHIGAN STREET X
MILWAUKEE,, WI 53203

Signatures

Keith H. Ecke, as Attorney-in-fact

01/19/2005

**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) These shares were acquired as director fees in an acquisition exempt from Section 16(b) pursuant to Rule 16b-3(d).
- (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.

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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