ALLIANT ENERGY (Form 8-K April 22, 2005	CORP	
UNITED STATES SECURITIES AND EXCH. Washington, D.C. 20549	ANGE COMMISSION	
	_	
FORM 8-K		
CURRENT REPORT		
Pursuant to Section 13 or 15 the Securities Exchange Act		
	-	
Date of Report (Date of earliest event reported): April 2	1, 2005	
Commission	Name of Registrant, State of Incorporation, Address of Principal Executive	IRS Employer
File Number	Offices and Telephone Number	Identification Number
1-9894	Alliant Energy Corporation (a Wisconsin corporation) 4902 N. Biltmore Lane Madison, Wisconsin 53718 Telephone (608) 458-3311	39-1380265

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 2.02. Results of Operations and Financial Condition.

On April 21, 2005, Alliant Energy Corporation issued a press release previewing its earnings for the first quarter ended March 31, 2005. The press release is attached hereto as Exhibit 99.1 and incorporated herein by reference.

Item 9.01. Financial Statements and Exhibits.

- (a) Not applicable.
- (b) Not applicable
- (c) Exhibits. The following exhibit is being filed herewith:
 - (99.1) Alliant Energy Corporation press release dated April 21, 2005.

1

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, Alliant Energy Corporation has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

ALLIANT ENERGY CORPORATION

Date: April 21, 2005 By: /s/ John E. Kratchmer

John E. Kratchmer Vice President-Controller and Chief Accounting Officer

2

EXHIBIT INDEX

Exhibit No. Description

99.1 Alliant Energy Corporation press release dated April 21, 2005

3