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ALLIANT ENERGY CORP  
Form 11-K  
June 29, 2005

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

FORM 11-K

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES  
EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2004

or

TRANSITION REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES  
EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission File Number: 1-9894

A. Full title of the plan and address of the plan, if different from  
that of the issuer named below:

ALLIANT ENERGY CORPORATION 401(k) SAVINGS PLAN

B. Name of issuer of the securities held pursuant to the plan and the  
address of its principal executive office:

ALLIANT ENERGY CORPORATION  
4902 North Biltmore Lane  
Madison, Wisconsin 53718

REQUIRED INFORMATION

The following financial statements and schedules of the Alliant Energy Corporation 401(k) Savings Plan, prepared in accordance with the financial reporting requirements of the Employee Retirement Income Security Act of 1974, as amended, are filed herewith.

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Exhibit Index is on page 18

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ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN  
FINANCIAL STATEMENTS AS OF DECEMBER 31, 2004 AND 2003  
AND FOR THE YEAR ENDED DECEMBER 31, 2004,  
SUPPLEMENTAL SCHEDULES FOR THE YEAR ENDED DECEMBER 31, 2004, AND  
REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

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ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN  
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### Report of Independent Registered Public Accounting Firm

To the Total Compensation Committee and Participants of the Alliant Energy Corporation 401(k) Savings Plan:

We have audited the accompanying statements of net assets available for plan benefits of the Alliant Energy Corporation 401(k) Savings Plan (the "Plan") as of December 31, 2004 and 2003, and the related statement of changes in net assets available for plan benefits for the year ended December 31, 2004. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. The Plan is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such financial statements present fairly, in all material respects, the net assets available for plan benefits of the Plan as of December 31, 2004 and 2003, and the changes in net assets available for plan benefits for the year ended December 31, 2004, in conformity with accounting principles generally accepted in the United States of America.

Our audits were conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedules of (1) assets (held at end of year) as of December 31, 2004, and (2) reportable transactions for the year ended December 31, 2004, are presented for the purpose of additional analysis and are not a required part of the basic financial statements, but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. These schedules are the responsibility of the Plan's management. Such schedules have been subjected to the auditing procedures applied in our audit of the basic 2004 financial statements and, in our opinion, are fairly stated in all material respects when considered in relation to the basic financial statements taken as a whole.

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/s/ Deloitte & Touche LLP

Milwaukee, Wisconsin  
June 16, 2005

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ALLIANT ENERGY CORPORATION

401(k) SAVINGS PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR PLAN BENEFITS

	Dec 2004
Investment income receivable	\$8,564,2
Contributions receivable	374,3
<b>Total receivables</b>	<b>8,938,6</b>
Investments, other than participant promissory notes (Refer to Note 7)	445,595,3
Participant promissory notes	8,742,8
<b>Total investments</b>	<b>454,338,1</b>
<b>Net assets available for plan benefits</b>	<b>\$463,276,8</b>

The accompanying Notes to Financial Statements are an integral part of these statements.

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ALLIANT ENERGY CORPORATION

401(k) SAVINGS PLAN

STATEMENT OF CHANGES IN NET ASSETS AVAILABLE FOR PLAN BENEFITS

For the Year Ended December 31, 2004

Net assets available for plan benefits - beginning of year	\$400,889,639
Contributions:	

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Cash contributions from employees	26,470,660
Employer contributions:	
Cash for purchase of Alliant Energy Corporation common stock	7,750,725
Cash	692,957
Rollovers from other qualified plans	537,947
Investment activity:	
Net appreciation in fair value of investments (Refer to Note 7)	38,741,362
Investment income	9,343,320
Distributions to participants	(21,149,793)
	-----
Net assets available for plan benefits - end of year	\$463,276,817
	=====

The accompanying Notes to Financial Statements are an integral part of this statement.

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ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN

NOTES TO FINANCIAL STATEMENTS  
FOR THE YEAR ENDED DECEMBER 31, 2004

Note 1. Description of the Plan

The Alliant Energy Corporation 401(k) Savings Plan (the Plan) is a qualified defined contribution plan under Section 401(k) of the Internal Revenue Code (the Code), as amended, and meets the applicable requirements of the Employee Retirement Income Security Act of 1974, as amended. The following brief description of the Plan is provided for general information purposes only. More complete information regarding the Plan is provided in the summary plan description, which has been made available to all eligible Plan participants (participants). The Plan is administered by the Total Compensation Committee (the Committee) and the Plan sponsor is Alliant Energy Corporate Services, Inc. (a direct subsidiary of Alliant Energy Corporation), which reserves the right to terminate, amend or modify the Plan if future conditions warrant such action.

Any regular employee of Alliant Energy Corporation and its participating subsidiaries (the Company) age 18 and over may participate in the Plan. Regular full-time employees and regular part-time employees customarily scheduled to work at least half-time may participate immediately following 30 days of service. Part-time employees customarily scheduled to work less than half-time may participate after 12 months of service during which he or she has earned at least 1,000 paid hours.

An Employee Stock Ownership Plan (ESOP) is in place within the Plan. Under these provisions, participants have the option to elect to receive cash for any dividends paid on Company common stock within the Plan or to have the dividends reinvested in additional shares based on the current market price. Also, the Company is eligible for the dividend deduction provisions of Section 404(k) of the Code for Company common stock held in the ESOP.

The Company provides matching contributions for each \$1 contributed by participants up to a maximum of the first 6% of each respective participant's eligible compensation. Other than the exceptions noted below, Company match

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information and employee contribution limits for 2004 were as follows:

Company match for each \$1 contributed up to the maximum	\$0.50
Eligible employee annual contribution limit as a percentage of compensation	50%
Maximum annual contribution limit	\$13,000

Company contributions for Alliant Energy Resources, Inc. (Resources) and Cedar Rapids and Iowa City Railway Company (CRANDIC) employees are calculated based on a percentage of base pay, without overtime or incentive pay, and there is a "basic" Company contribution equal to 4% and 2%, respectively, of base pay.

Resources and CRANDIC employees may be eligible for a "discretionary" Company contribution of \$0.50 for every \$1 contributed up to a maximum of the first 6% of pay in addition to the "basic" Company contribution. The "discretionary" contribution for both Resources and CRANDIC employees is based on goals established by Resources and is typically determined and paid during the first quarter of the following year. The "discretionary" Company contributions for 2004 and 2003 were \$374,368 and \$424,518, respectively.

An "additional" Company contribution is allocated to the accounts of active participants, except for Resources and CRANDIC employees, as of the last day of the Plan year, who contributed at least 6% of compensation during the Plan year and did not receive a Company matching contribution equal to 3% of compensation. The amount of the "additional" Company contribution is the difference between 3% of compensation during the Plan year and the amount of Company matching contributions previously received during the Plan year.

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Participants who were at least age 50 by Dec. 31, 2004 were eligible to make catch-up contributions of up to \$3,000 in 2004. These catch-up contributions were not eligible for any Company match.

All Company contributions are invested in the Alliant Energy Corporation Common Stock Fund, except for Company "basic" contributions for Resources and CRANDIC employees which are invested at each participant's discretion.

Participants are immediately vested in their respective employee and employer contributions.

Contributions under the Plan are held and invested, until distribution, in a Trust Fund maintained by American Express Trust Company (the Trustee), a division of American Express Financial Advisors Inc.

Participants may subsequently redesignate the distribution of future contributions or transfer existing balances between investment funds on a daily basis, subject to the limits set forth in the Plan. As previously described, Company matching contributions invested in the Alliant Energy Corporation Company Stock Fund may not be transferred to any other investment fund, except for "basic" contributions made for CRANDIC and Resources employees. However, Company matching contributions may be transferred by certain participants during the 30-day period immediately prior to retirement and participants age 55 with 10 years of service are eligible to diversify up to 100% of their ESOP account to one or more of the investment options.

The Plan has provisions under which participants who are active employees may take loans up to the lesser of \$50,000 or 50% of their total account balance (a \$1,000 minimum loan amount and a maximum of three loans

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for each participant also apply). The Committee determines the loan interest rate pursuant to the Plan. Interest rates on participant loans ranged from 5.0% to 10.5% at both Dec. 31, 2004 and 2003. Principal and interest are repaid bi-weekly through employee payroll deductions.

### Note 2. Summary of Significant Accounting Policies

(a) Basis of Accounting - The financial statements have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP).

(b) Valuation of Investments and Income Recognition - All Guaranteed Investment Contracts (GIC's) held by the Plan are fully benefit responsive and are valued at contract value, which represents contributions made under the contract, plus interest at the contract rate (less funds used to pay plan benefits). The carrying value of all GIC investments was \$35,339,962 and \$38,189,962 at Dec. 31, 2004 and 2003, respectively. The approximate fair value of these investments was \$43,639,028 and \$46,026,501 at Dec. 31, 2004 and 2003, respectively, based on the discounted cash flows valuation method. Under the terms of the GIC's, the weighted average crediting interest rate was 5.00% and 4.08% on Dec. 31, 2004 and 2003, respectively, and is reset quarterly for all contracts. The GIC's earned an average rate of 4.80% in 2004. Participant loans are carried at unpaid principal balances due. All other Plan investments are carried at fair value as determined by quoted market prices, except for the American Express Trust Income Fund I. The American Express Trust Income Fund I is a common collective trust fund, which includes investments in fully benefit responsive GIC's and is reported at contract value, which approximates fair value. Interest income is accrued when earned. Dividend income is recorded on the ex-dividend date. Investment transactions are recorded on the trade date.

(c) Net Appreciation in Fair Value of Investments - Net realized and unrealized appreciation is recorded in the accompanying statement of changes in net assets available for plan benefits as "Net appreciation in fair value of investments."

(d) Payment of Benefits - Benefit payments to participants are recorded when paid.

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(e) Expenses - Investment management fees are paid from investment earnings prior to crediting earnings to the individual participant account balances. Most other Plan administrative expenses are absorbed by the Company. Expenses incurred in maintaining Self-Managed Brokerage Accounts are the responsibility of the respective Plan participants.

(f) Use of Estimates - The preparation of financial statements in conformity with GAAP requires the Plan administrator to make estimates and assumptions that affect the reported amounts of net assets available for plan benefits at the date of the financial statements and the reported amounts of changes in net assets available for plan benefits during the reporting period. Actual results could differ from those estimates.

(g) Risk and Uncertainties - The Plan invests in various investments, including common investment funds, mutual funds, common stock of the Company and investment contracts. The Plan also offers a Self-Managed Brokerage Account option which allows participants to invest in a wide range of mutual funds. Investments, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility. Due to the level of

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risk associated with certain investments, it is reasonably possible that changes in the values of certain investments will occur in the near term and that such changes could materially affect the amounts reported in the financial statements.

### Note 3. Tax Status

The Internal Revenue Service has determined and informed the Company by a letter dated Aug. 25, 2003, that the Plan and related trust are designed in accordance with the applicable sections of the Code. It is the intention of the Company to adopt any amendments necessary to maintain the qualified status of the Plan.

### Note 4. Plan Termination Provisions

Upon termination of the Plan in its entirety, each participant is entitled to receive, in accordance with the terms of the Plan, the entire balance in their account. The Company has no intention to terminate the Plan.

### Note 5. Withdrawals and Distributions

Withdrawals from participants' account balances are allowed when participants who are actively employed reach age 70-1/2 (or age 59-1/2 for certain participants). Withdrawals are also allowed due to special "hardship" circumstances. Distributions from the Plan will be made upon termination of employment (by retirement, death, disability or otherwise) if the participant's account balance is less than \$5,000. If the participant's account balance exceeds \$5,000, the participant may elect to defer payment until he or she is age 70-1/2. Distributions can be either in the form of a lump sum or substantially equal annual installments. The unpaid portion of all loans made to the participant, including accrued interest, will be deducted from the amount of the participant account to be distributed. Distributions payable to participants at Dec. 31, 2004 and 2003 were \$25,656 and \$0, respectively. Distributions payable are not recorded in the accompanying financial statements, however, they are recorded in the Plan's Form 5500 (refer to Note 10).

### Note 6. Derivative Financial Instruments

The Plan did not invest in any material derivative financial instruments during 2004 and 2003.

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### Note 7. Other Investment Information

Investments held which were greater than 5% of the Plan's net assets available for plan benefits as of Dec. 31 were as follows:

	2004
Alliant Energy Corporation Common Stock*	\$108,063,758
(non-participant directed: \$63,508,962 (2,220,593 shares) and \$48,442,726 (1,945,491 shares), respectively)	
(participant directed: \$44,554,796 (1,557,860 shares) and \$40,792,583 (1,638,256 shares), respectively)	
American Express Trust Equity Index Fund III*, 2,340,750 and	



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2,449,624 shares, respectively	76,942,777
American Funds Growth Fund of America, 2,572,065 and 2,509,599 shares, respectively	70,423,142
American Express Trust Long-Term Horizon (65:35) Fund*, 2,660,902 and 2,729,903 shares, respectively	33,931,822
Dodge & Cox Stock Fund, 196,080 and 127,389 shares, respectively	25,533,595
Brown Capital Management Small Company Fund, 822,599 and 895,853 shares, respectively	24,513,456
PIMCO Total Return Fund, 1,941,165 and 1,887,924 shares, respectively	20,712,227
* Represents party known to be a party-in-interest to the Plan.	

During 2004, the Plan's investments, including gains and losses on investments acquired and disposed of, as well as held during the year, appreciated (depreciated) in value as follows:

Alliant Energy Corporation Common Stock	\$13,866,178
American Express Trust Equity Index Fund III	7,563,061
American Funds Growth Fund of America	7,216,827
American Express Trust Long-Term Horizon (65:35) Fund	2,835,135
Dodge & Cox Stock Fund	2,698,166
American Funds EuroPacific Growth Fund	2,599,976
Dreyfus Premier Emerging Markets Fund	653,655
State Street Global Advisors S&P Midcap Index Fund	528,085
Evergreen Small Cap Value Fund	365,571
American Express Trust Income Fund I	262,515
Vanguard Mid-Cap Index Fund	150,758
American Express Trust Long-Term Horizon (80:20) Fund	115,326
American Express Trust Short-Term Horizon (25:75) Fund	40,824
American Express Trust Bond Index Fund II	12,814
Self-Managed Brokerage Accounts	11,582
Brown Capital Management Small Company Fund	(89,258)
PIMCO Total Return Fund	(89,853)
	-----
Net appreciation in fair value of investments	\$38,741,362
	=====

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### Note 8. Non-Participant Directed Investments

Information about the net assets and the significant components of the changes in net assets relating to the non-participant directed investments was as follows:

	As of Dec. 31,	
Net assets:	2004	2003
Alliant Energy Corporation Common Stock*	\$63,508,962	\$48,442,726
American Express Trust Money Market Fund I*	993,002	605,615
Contributions receivable	374,368	424,518
Investment income receivable	697	441
	-----	-----
	\$64,877,029	\$49,473,300
	=====	=====

	For the Year Ended	
Changes in net assets:	Dec. 31, 2004	
	-----	
Employer contributions	\$7,750,725	

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Investment activity:	
Net appreciation in fair value of investments	7,936,617
Investment income	2,133,932
Transfers to participant directed investments	(482,303)
Distributions to participants	(1,935,242)
	-----
	\$15,403,729
	=====

\* Represents party known to be a party-in-interest to the Plan.

Note 9. Related Party Transactions

Certain Plan investments are shares of mutual funds and common trust funds managed by an affiliate of the Trustee and shares of common stock of the Company. As of Dec. 31, 2004 and 2003, the Plan held 3,778,453 and 3,583,747 shares of Alliant Energy Corporation common stock with a cost basis of \$92,640,650 and \$87,615,743, respectively. During the years ended Dec. 31, 2004 and 2003, the Plan recorded dividend income of \$3,705,802 and \$3,344,162, respectively, from investments in common stock of the Company. These transactions qualify as party-in-interest.

Note 10. Reconciliation to Form 5500

Distributions payable to participants are not included in the accompanying financial statements, however, they are recorded in the Plan's Form 5500. The following table reconciles net assets available for plan benefits per the financial statements to the Plan's Form 5500 as filed by the Company for the year ended Dec. 31:

	2004	2003
	-----	-----
Net assets available for plan		
benefits per financial statements	\$463,276,817	\$400,889,639
Adjustments:		
Benefits requested not yet paid	(25,656)	--
	-----	-----
Amounts reported per Form 5500	\$463,251,161	\$400,889,639
	=====	=====

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The following table reconciles certain changes in net assets available for plan benefits per the financial statements to the Form 5500 as filed by the Company for the year ended Dec. 31, 2004:

	Distributions to Participants
	-----
Amounts reported per financial statements	(\$21,149,793)
Adjustments:	
Changes in benefits requested not yet paid	(25,656)
	-----
Amounts reported per Form 5500	(\$21,175,449)
	=====

Note 11. Subsequent Event

On Aug. 1, 2005, it is expected that the Trustee will change its name to

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Ameriprise Trust Company, and American Express Financial Advisors Inc. will begin operating as Ameriprise Financial Services, Inc.

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### ALLIANT ENERGY CORPORATION

#### 401(k) SAVINGS PLAN

FORM 5500, SCHEDULE H, PART IV, LINE 4i - SCHEDULE OF ASSETS (HELD AT

AS OF DECEMBER 31, 2004

Identity of issue, borrower, lessor, or similar party	Description of investment including maturity date, rate of interest, collateral, par or maturity value
Registered Investment Companies	
	Evergreen Small Cap Value Fund, 216,771 shares
	American Funds Growth Fund of America, 2,572,065 shares
	PIMCO Total Return Fund, 1,941,165 shares
	Dodge & Cox Stock Fund, 196,080 shares
	Brown Capital Management Small Company Fund, 822,599 shares
	Dreyfus Premier Emerging Markets Fund, 354,871 shares
	American Funds EuroPacific Growth Fund, 526,727 shares
Common/Collective Trusts	
	American Express Trust Money Market Fund I*, 3,547,995 shares
	American Express Trust Short-Term Horizon (25:75) Fund*, 42,15 shares
	American Express Trust Long-Term Horizon (65:35) Fund*, 2,660, shares
	American Express Trust Long-Term Horizon (80:20) Fund*, 54,546 shares
	American Express Trust Equity Index Fund III*, 2,340,750 share
	American Express Trust Income Fund I*, 137,429 shares
	American Express Trust Investment Grade Bond Fund*, 273,592 sh
	American Express Trust Bond Index Fund II*, 33,412 shares
	State Street Global Advisors S&P Midcap Index Fund, 176,674 sh
Corporate Stocks: Common	
	Alliant Energy Corporation common stock*, 3,778,453 shares
Corporate Bonds	
	AMCAR 2002-C AR, 3.55%, 2/12/08, par value \$100,000
	AMCAR 2003-CF A3, 2.75%, 10/9/07, par value \$175,000
	AMCAR 2004-AF A3, 2.18%, 7/7/08, par value \$200,000
	AMCAR 2004-CA A3, 3.00%, 3/6/09, par value \$150,000
	AMSI 2004-R7 A2, 2.55%, 8/25/34, par value \$89,078
	BOAA 2003-1-A1, 5.00%, 2/25/33, par value \$151,156
	BOAMS 2004-E 2A6, 4.13%, 6/25/34, par value \$150,000
	CWL 2004-5 4A1, 2.53%, 8/25/23, par value \$112,411
	COAFT 2002-B A4A, 3.32%, 4/15/09, par value \$100,000
	COAFT 2003-A A3A, 1.83%, 10/15/07, par value \$130,578
	COAFT 2004-A A3, 3.07%, 7/15/08, par value \$100,000
	Centex Home Eq 2004-A AF3, 3.26%, 4/25/28, par value \$150,000
	CFAB 2004-2 2A1, 2.55%, 1/25/25, par value \$99,731
	CSFB 2004-C1 A2, 3.52%, 1/15/37, par value \$100,000
	FSPC T-17 A4 ABS HEL, 6.93%, 1/25/26, par value \$66,469
	GMACC 2002-C2 A1, 4.32%, 10/15/38, par value \$151,862
	GSMS 2004-GG2 A2, 4.29%, 8/1/38, par value \$150,000

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HART 2003-A A3, 2.33%, 11/15/07, par value \$150,000  
 LBUBS 2004-C4 A2, 4.57%, 5/15/34, par value \$150,000  
 LB-UBS 2002-A2, 4.90%, 6/15/26, par value \$200,000  
 LBUBS 2004-C6 A2, 4.19%, 8/15/29, par value \$200,000  
 LBUBS 2003-C7 A2, 4.06%, 9/15/27, par value \$185,000  
 LBUBS 2003-C8 A2, 4.21%, 11/15/27, par value \$150,000  
 LBUBS 2004-C2 A2, 3.25%, 3/15/29, par value \$150,000  
 LBMLT 2004-3 A2, 2.54%, 7/25/34, par value \$107,419  
 MARM 2004-3 3A2, 4.50%, 4/25/34, par value \$129,431  
 MSCI 2004-IQ8-A2, 3.96%, 6/15/40, par value \$250,000  
 MSM 2004-2AR 3A, 5.05%, 2/25/34, par value \$161,695  
 MSM 2004-10AR 1A, 4.82%, 11/25/34, par value \$141,712  
 RALI SER 2003-QS4 ABS, 5.50%, 9/25/33, par value \$179,562  
 RASC 2004-KS8 A13, 3.84%, 9/25/34, par value \$125,000  
 RASC SER 2002-KS1, 5.864%, 11/25/29, par value \$192,758  
 SASCO CMO 2004-12H, 5.56%, 4/25/34, par value \$110,288  
 VWALT 2004-A-A3, 2.84%, 7/20/07, par value \$150,000  
 WESTO 2002-1 A4A, 4.87%, 9/20/09, par value \$150,000  
 WESTO 2002-2 A4, 4.50%, 2/20/10, par value \$150,000  
 WESTO 2003-4 A3, 2.39%, 1/22/08, par value \$150,000  
 WBCMT 2003-C8 A2, 3.89%, 11/15/35, par value \$150,000

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ALLIANT ENERGY CORPORATION

401(k) SAVINGS PLAN

FORM 5500, SCHEDULE H, PART IV, LINE 4i - SCHEDULE OF ASSETS (HELD AT

AS OF DECEMBER 31, 2004 (Continued)

Identity of issue, borrower, lessor, or similar party	Description of investment including maturity date, rate of interest, collateral, par or maturity value
Government and Agency Obligations	FHLMC Gold #E91326, 6.50%, 9/1/17, par value \$91,927
	FHLMC Gold #E96180, 4.50%, 5/1/13, par value \$138,779
	FHLMC Gold #E96579, 4.50%, 6/1/13, par value \$161,377
	FHLMC Gold #E97247, 5.00%, 6/1/18, par value \$121,903
	FHLMC MTN, 3.525%, 12/20/07, par value \$370,000
	FHLMC, 2.85%, 2/23/07, par value \$300,000
	FHLMC Gold #C66932, 6.00%, 5/1/32, par value \$77,995
	FHLMC Gold #B10258, 5.00%, 10/1/18, par value \$290,539
	FHLMC Gold #B10776, 5.00%, 11/1/13, par value \$123,046
	FHLB, 3.00%, 5/15/06, par value \$290,000
	FHLB, 2.50%, 3/13/06, par value \$300,000
	Fed Home Loan Bank, 2.88%, 5/22/06, par value \$475,000
	Fed Home Loan Bank, 3.25%, 12/17/07, par value \$170,000
	Federal Farm Credit Bank, 2.38%, 10/2/06, par value \$150,000
	Federal Farm Credit Bank, 2.13%, 7/17/06, par value \$250,000
	FHLMC 2393-A CMO, 5.50%, 4/15/30, par value \$22,549
	FHLMC, 5.50%, 7/15/06, par value \$150,000
	FHLMC Reference Notes, 4.25%, 7/15/09, par value \$475,000
	FHLMC ARM #781884, 5.20%, 8/1/34, par value \$98,650
	FHLMC (Non Gold) Arm #782436, 5.01%, 10/1/34, par value \$147,4
	FNMA, 3.88%, 11/17/08, par value \$350,000
	FNMA Benchmark, 2.25%, 2/28/06, par value \$145,000
	FNMA, 3.00%, 3/2/07, par value \$220,000
	FNMA Benchmark, 3.13%, 12/15/07, par value \$65,000
	FNMA 15yr #252260, 6.00%, 3/1/10, par value \$512,781
	FNMA #254187, 5.00%, 12/1/08, par value \$318,937

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FNMA #254291, 7.00%, 4/1/17, par value \$120,175  
 FNMA #254757, 5.00%, 3/31/13, par value \$133,650  
 FNMA #535170, 5.50%, 9/1/14, par value \$140,518  
 FNMA #545701, 7.00%, 7/1/12, par value \$158,408  
 FNMA #545864, 5.50%, 8/1/17, par value \$220,934  
 FNMA #555655, 4.45%, 7/1/33, par value \$254,080  
 FNMA #555740, 4.50%, 9/1/18, par value \$258,383  
 FNMA #640996, 7.50%, 5/1/32, par value \$79,659  
 FNMA #648349, 6.00%, 6/1/17, par value \$93,746  
 FNMA 2002-W3 A3, 6.00%, 7/25/24, par value \$164,624  
 FNMA 2002-W5 A6, 6.00%, 8/25/32, par value \$166,553  
 FNMA 2002-W4 A3, 5.30%, 4/25/42, par value \$323,694  
 FNMA 2002-W9 A3, 5.00%, 8/25/42, par value \$153,438  
 FNMA CMO 03-W2-2A6, 5.50%, 7/25/42, par value \$68,709  
 FHLMC 2492-B, 5.50%, 5/15/13, par value \$332,019  
 FNMA #200394, 5.50%, 7/25/23, par value \$300,000  
 FHLMC 2617 HD, 7.00%, 6/15/16, par value \$118,399  
 FNMA 2003-109 CX, 4.00%, 7/25/16, par value \$150,000  
 FNMA 2003-106 B, 4.50%, 10/25/19, par value \$191,463  
 FNMA 2003-W16 AF3, 2.91%, 1/25/29, par value \$150,000  
 FNMA 2003-133 GB, 8.00%, 12/25/26, par value \$73,127  
 FHLMC\_2641, 6.50%, 1/15/18, par value \$120,327  
 FNMA 2004-21 AC, 4.00%, 5/25/16, par value \$200,000  
 FNMA 2004-W3 A2, 3.75%, 5/25/34, par value \$125,000  
 FNMA 2004-W3 A14, 3.50%, 5/25/34, par value \$85,343  
 FNMA 2004-W3 A15, 5.00%, 5/25/34, par value \$100,000  
 FNMA 2004-W4 A2, 5.00%, 6/25/34, par value \$150,000  
 FNMA 2004-W8, 7.50%, 6/25/44, par value \$83,710  
 FNMA 2004-60 PA, 5.50%, 4/25/34, par value \$146,796  
 FHLMC 2657 NT, 5.00%, 1/15/16, par value \$150,000  
 FHLMC 2663 BA, 4.00%, 8/15/16, par value \$82,544  
 FHLMC 2672 NT, 5.00%, 2/15/16, par value \$200,000  
 FHLMC 2662 DB, 5.00%, 2/15/16, par value \$150,000  
 FHLMC 2681 PJ, 5.00%, 10/15/15, par value \$300,000

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ALLIANT ENERGY CORPORATION

401(k) SAVINGS PLAN

FORM 5500, SCHEDULE H, PART IV, LINE 4i - SCHEDULE OF ASSETS (HELD AT

AS OF DECEMBER 31, 2004 (Continued)

Identity of issue, borrower,  
 lessor, or similar party

Description of investment including maturity date,  
 rate of interest, collateral, par or maturity value

FHLMC 2688 DE, 4.50%, 2/15/20, par value \$150,000  
 FHLMC 2716 UA, 4.50%, 7/15/20, par value \$268,388  
 FHLMC 2750 DB, 4.50%, 5/15/15, par value \$150,000  
 FHLMC 2822 ZN, 5.00%, 1/15/33, par value \$41,574  
 FHLMC 2843-BA, 5.00%, 1/15/18, par value \$140,442  
 FHLMC 2907-AG, 4.50%, 3/15/19, par value \$125,000  
 FHLMC, 3.50%, 9/15/07, par value \$725,000  
 FNMA #685433, 6.50%, 3/1/33, par value \$187,532  
 FNMA #705304, 4.90%, 6/1/33, par value \$174,887  
 FNMA ARM #722781, 4.27%, 9/1/33, par value \$459,008  
 FNMA #725090, 4.80%, 11/1/33, par value \$139,469  
 FNMA ARM #725737, 4.53%, 8/1/34, par value \$98,575  
 FNMA #732002, 4.25%, 8/1/33, par value \$105,295

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FNMA #764082, 4.78%, 1/1/34, par value \$127,987  
FNMA ARM #768193, 4.58%, 3/1/34, par value \$161,085  
FNMA ARM #799769, 5.07%, 11/1/34, par value \$149,983  
FNMA ARM #801344, 5.10%, 10/1/34, par value \$145,752  
FNMA 2003-W18 1A5, 4.61%, 8/25/43, par value \$100,000  
FNMA 2004-W10 A23, 5.00%, 8/25/34, par value \$125,000  
VENDEE 2003-2 C, 5.00%, 7/15/20, par value \$100,000  
U.S. Treasury Note, 3.25%, 8/15/07, par value \$265,000  
U.S. Treasury Note, 1.88%, 1/31/06, par value \$1,525,000  
U.S. Treasury Note, 2.25%, 2/15/07, par value \$1,065,000  
U.S. Treasury Note, 2.75%, 8/15/07, par value \$800,000  
U.S. Treasury Note, 4.25%, 8/15/04, par value \$475,000  
U.S. Treasury Note, 2.88%, 11/30/06, par value \$600,000  
U.S. Treasury Note, 3.63%, 12/15/09, par value \$1,785,000

Investment Contracts

Monumental Life Insurance Company, 4.09%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
Bank of America NA, 5.45%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
Rabobank International, 4.80%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
IXIS Capital Markets, 3.31%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
JP Morgan Chase & Co., 3.94%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
UBS Warburg, 3.61%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
State Street Bank and Trust Company, 3.23%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
AIG Financial Products Corp., 3.32%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
United of Omaha, 2.48%, 5/20/05  
John Hancock Life Insurance Company, 7.69%, 3/31/05  
New York Life Insurance Company, 7.41%, 8/15/05  
Hartford, 5.21%, 11/15/06  
Protective Life Insurance Company, 6.12%, 6/15/06

Participant-Directed Brokerage  
Accounts

Self-Managed Brokerage Accounts

Participant Promissory Notes

Maximum allowable loan -- \$50,000  
Various interest rates -- 5.0% to 10.5%  
Primarily maturing within 5 years

(1) The difference between the total current value on this Schedule H, Part IV, Line 4i and the total value of Net Assets Available for Plan Benefits as of Dec. 31, 2004 is equal to accrued interest on Investment Contracts.

\* Represents party known to be a party-in-interest to the Alliant Energy Corporation 401(k) Plan.

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401(k) SAVINGS PLAN

FORM 5500, SCHEDULE H, PART IV

LINE 4j - SCHEDULE OF REPORTABLE TRANSACTIONS

FOR THE YEAR ENDED DECEMBER 31, 2004

Identity of Party Involved and Description of Assets	Total Number of Purchases	Total Value of Purchases (1)	Total Number of Sales	Ne Sell Price
-----				
Single Transaction Exceeds 5% of Value:				
None.				
-----				
Series of Transactions With Same Broker Exceeds 5% of Value:				
None.				
-----				
Series of Transactions In Same Security Exceeds 5% of Value:				
American Express Trust Money Market Fund I	384	\$47,425,374	455	\$48,010
-----				
Single Transaction With One Broker Exceeds 5% of Value:				
None.				
-----				

(1) The purchase/selling price was equal to the fair value on the date of purchase/sale.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the Total Compensation Committee, which administers the Plan, has duly caused this Annual Report to be signed on its behalf by the undersigned, thereunto duly authorized, on this 29th day of June 2005.

ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN

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/s/ Jonathan C. Day  
-----  
Jonathan C. Day

The foregoing person is the Director - Total Compensation of Alliant Energy Corporation and the Chairperson of the Alliant Energy Corporation Total Compensation Committee.

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EXHIBIT INDEX TO ANNUAL REPORT ON FORM 11-K

ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN

FOR THE YEAR ENDED DECEMBER 31, 2004

Exhibit No. -----	Exhibit -----	Page Number in Sequentially Numbered Form 11-K -----
23	Consent of Independent Registered Public Accounting Firm	19

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