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ALLIANT ENERGY CORP  
Form 11-K  
June 28, 2006

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, 2005  
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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 20

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ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN  
FINANCIAL STATEMENTS AS OF DECEMBER 31, 2005 AND 2004  
AND FOR THE YEAR ENDED DECEMBER 31, 2005,  
SUPPLEMENTAL SCHEDULES FOR THE YEAR ENDED DECEMBER 31, 2005, AND  
REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

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ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN

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as of December 31, 2005 and 2004

Statement of Changes in Net Assets Available for Benefits  
for the Year Ended December 31, 2005

### NOTES TO FINANCIAL STATEMENTS

### SUPPLEMENTAL SCHEDULES

Form 5500, Schedule H, Part IV, line 4i - Schedule of Assets (Held at End of Year)  
as of December 31, 2005

Form 5500, Schedule H, Part IV, line 4i - Schedule of Assets (Acquired and Disposed  
of Within Year) for the Year Ended December 31, 2005

Form 5500, Schedule H, Part IV, line 4j - Schedule of Reportable Transactions  
for the Year Ended December 31, 2005

### SIGNATURES

### EXHIBIT INDEX

Consent of Independent Registered Public Accounting Firm

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  
benefits of Alliant Energy Corporation 401(k) Savings Plan (the "Plan") as of  
December 31, 2005 and 2004, and the related statement of changes in net  
assets available for benefits for the year ended December 31, 2005. 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 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

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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 benefits of the Plan as of December 31, 2005 and 2004, and the changes in net assets available for benefits for the year ended December 31, 2005 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, 2005, (2) assets (acquired and disposed of within year) for the year ended December 31, 2005, and (3) reportable transactions for the year ended December 31, 2005, 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 2005 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.

/s/ Deloitte & Touche LLP  
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Milwaukee, Wisconsin  
June 28, 2006

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ALLIANT ENERGY CORPORATION

401(k) SAVINGS PLAN

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

Investment income receivable  
Contributions receivable  
  
Total receivables

2

-----  
\$1,

1,

-----  
3,

-----

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Investments, other than participant promissory notes (Refer to Notes 7 and 8)	487,
Participant promissory notes	8,
	-----
Total investments	496,
	-----
Net assets available for benefits	\$499,
	=====

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 BENEFITS

For the Year Ended December 31, 2005

Net assets available for benefits - beginning of year	\$463,2
Contributions:	
Cash contributions from employees	26,3
Employer contributions:	
Cash for purchase of Alliant Energy Corporation common stock	7,6
Cash	3
Rollovers from other qualified plans	5
Investment income:	
Net appreciation in fair value of investments (Refer to Note 7)	17,3
Interest and dividends	16,0
Distributions to participants	(32,2)
	-----
Net assets available for benefits - end of year	\$499,2
	=====

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, 2005

Note 1. Description of the Plan

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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 (ERISA). The following brief description of the Plan is provided for general information purposes only. More complete information regarding the Plan is provided in the plan document and summary plan description, which have 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). The Committee 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 amounts contributed by participants to the Plan. Other than the exceptions noted below, Company match information and employee contribution limits for 2005 were as follows:

Company match for each \$1 contributed	\$0.50
Maximum amount of Company match as a percentage of each respective participant's eligible compensation	3%
Eligible employee annual contribution limit as a percentage of compensation	50%
Maximum annual contribution limit*	\$14,000

\*Participants who were at least age 50 by Dec. 31, 2005 were eligible to make additional catch-up contributions of up to \$4,000 in 2005. These additional catch-up contributions were not eligible for any Company match.

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 achieving specified goals and is typically determined and paid during the first quarter of the following year. The "discretionary" Company contributions for 2005 and 2004 were \$198,808 and \$374,368, 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

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Company matching contributions previously received during the Plan year.

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Beginning Jan. 1, 2006, the Company began making changes to the Plan for newly hired non-bargaining employees and all Resources and CRANDIC employees. For all other non-bargaining employees, the following changes will go into effect on Aug. 1, 2008. The changes include the Company matching \$0.50 for each \$1 contributed up to the first 8% of each respective participant's eligible compensation. In addition, the Company provides a "cash contribution" into each active employees' 401(k) account each pay period based on a percentage of base pay as follows:

Age plus Years of Service -----	Company Cash Contribution -----
49 or less	4%
50 - 69	5%
70+	6%

Company contributions are invested in the Alliant Energy Corporation Common Stock Fund, except for Company "basic" contributions for Resources and CRANDIC employees and beginning Jan. 1, 2006, the "cash contribution" for newly hired non-bargaining employees and all Resources and CRANDIC employees. These exceptions 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 Ameriprise Trust Company (the Trustee), formerly known as (f/k/a) American Express Trust Company, a division of Ameriprise Financial Services, 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. 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 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, 2005 and 2004. 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

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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 \$38,204,962 and \$35,339,962 at Dec. 31, 2005 and 2004, respectively. The approximate fair value of these investments was \$46,887,620 and \$43,639,028 at Dec. 31, 2005 and 2004, respectively, based on the discounted cash flows valuation method. Under the terms of the GIC's, the weighted average crediting interest rate was 4.33% and 5.00% on Dec. 31, 2005 and 2004, respectively, and is reset quarterly for all contracts. The GIC's earned an average rate of 4.86% and 4.80% in 2005 and 2004, respectively. 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 RiverSource Trust Income Fund I, f/k/a American Express Trust Income Fund I. The RiverSource 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.

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(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 benefits as "Net appreciation in fair value of investments."

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

(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 benefits at the date of the financial statements and the reported amounts of changes in net assets available for 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 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.

(h) Reclassifications - Certain prior period amounts have been reclassified on a basis consistent with the current year presentation.

### 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



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accordance with the applicable sections of the Code. The Plan has been amended since receiving the determination letter. However, the Committee and the Plan's tax counsel believe that the Plan is designed and is currently being operated in compliance with the applicable requirement of the Code.

### 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.

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### 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 a withdrawing participant's account balance exceeds \$1,000 but is less than \$5,000, and the participant does not make an election to either have the account paid as a direct rollover or as a cash payment, the distribution will be paid as a direct rollover to an individual retirement account established at the Trustee. If a withdrawing 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, 2005 and 2004 were \$59,982 and \$25,656, respectively. Distributions payable are not included within net assets available for benefits in the accompanying financial statements, however, they are recorded as liabilities 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 2005 and 2004.

### Note 7. Other Investment Information

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

	2005
Alliant Energy Corporation Common Stock* (non-participant directed: \$68,338,101 (2,437,165 shares) and \$63,508,962 (2,220,593 shares), respectively) (participant directed: \$39,089,784 (1,394,072 shares) and \$44,554,796 (1,557,860 shares), respectively)	\$107,427,8
American Funds Growth Fund of America, 2,660,335 and 2,572,065 shares, respectively	82,097,9
RiverSource Trust Equity Index Fund III*, f/k/a American Express Trust Equity Index Fund III, 2,209,051 and 2,340,750 shares, respectively	76,095,1

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Dodge & Cox Stock Fund, 300,943 and 196,080 shares, respectively	41,295,3
American Funds EuroPacific Growth Fund, 741,088 and 526,727 shares, respectively	30,110,4
PIMCO Total Return Fund, 2,780,718 and 1,941,165 shares, respectively	29,197,5
Brown Capital Management Small Company Fund, 24,349 and 822,599 shares, respectively	760,6
RiverSource Trust Long-Term Horizon (65:35) Fund*, f/k/a American Express Trust Long-Term Horizon (65:35) Fund, 0 and 2,660,902 shares, respectively	
* Represents party known to be a party-in-interest to the Plan.	

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During 2005, 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:

American Funds Growth Fund of America	\$9,322,356
American Funds EuroPacific Growth Fund	3,749,899
RiverSource Trust Equity Index Fund III*, f/k/a American Express Trust Equity Index Fund III	3,644,444
Dodge & Cox Stock Fund	2,120,745
State Street Global Advisors S&P Midcap Index Fund	1,314,412
Brown Capital Management Small Company Fund	908,832
Dreyfus Premier Emerging Markets Fund	799,408
RiverSource Trust Income Fund I*, f/k/a American Express Trust Income Fund I	406,206
Evergreen Small Cap Value Fund	288,397
RiverSource Trust Bond Index Fund II*, f/k/a American Express Trust Bond Index Fund II	181,115
Self-Managed Brokerage Accounts	8,768
RiverSource Trust Short-Term Horizon (25:75) Fund*, f/k/a American Express Trust Short-Term Horizon (25:75) Fund	(3,470)
RiverSource Trust Long-Term Horizon (80:20) Fund*, f/k/a American Express Trust Long-Term Horizon (80:20) Fund	(32,912)
PIMCO Total Return Fund	(428,885)
RiverSource Trust Long-Term Horizon (65:35) Fund*, f/k/a American Express Trust Long-Term Horizon (65:35) Fund	(637,563)
Alliant Energy Corporation Common Stock*	(2,022,776)
Buffalo Small Cap Fund	(2,299,052)
	-----
Net appreciation in fair value of investments	\$17,319,924
	=====

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

### 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:

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	2005	Dec. 31, 2004
Net assets:		
Alliant Energy Corporation Common Stock*	\$68,338,101	\$63,338,101
RiverSource Trust Money Market Fund I*, f/k/a American Express Trust Money Market Fund I*	987,313	
Contributions receivable	378,296	
Investment income receivable	5,358	
	-----	-----
	\$69,709,068	\$64,709,068
	=====	=====
Changes in net assets:	2005	
	-----	
Employer contributions	\$7,682,202	
Investment activity:		
Investment income	2,653,378	
Net depreciation in fair value of investments	(1,331,372)	
Transfers to participant directed investments	(1,048,064)	
Distributions to participants	(3,124,105)	
	-----	
	\$4,832,039	
	=====	

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

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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, 2005 and 2004, the Plan held 3,831,237 and 3,778,453 shares of Alliant Energy Corporation common stock with a cost basis of \$94,376,693 and \$92,640,650, respectively. In 2005 and 2004, the Plan recorded dividend income of \$3,980,853 and \$3,705,802, 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 within net assets available for benefits in the accompanying financial statements, however, they are recorded as liabilities in the Plan's Form 5500. The following table reconciles net assets available for benefits per the financial statements to the Plan's Form 5500 as filed by the Company:

	2005	2004
Net assets available for benefits per financial statements	\$499,241,183	\$463,241,183
Adjustments:		
Benefits requested not yet paid	(59,982)	

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Amounts reported per Form 5500

-----  
\$499,181,201  
=====

-----  
\$463,  
=====

The following table reconciles distributions to participants per the financial statements to the Form 5500 as filed by the Company for 2005:

	Distributions to Participants
	-----
Amounts reported per financial statements	(\$32,264,424)
Adjustments:	
Changes in benefits requested not yet paid	(34,326)
	-----
Amounts reported per Form 5500	(\$32,298,750) =====

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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, 2005

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, 397,516 shares American Funds Growth Fund of America, 2,660,335 shares PIMCO Total Return Fund, 2,780,718 shares Dodge & Cox Stock Fund, 300,943 shares Brown Capital Management Small Company Fund, 24,349 shares Dreyfus Premier Emerging Markets Fund, 604,841 shares American Funds EuroPacific Growth Fund, 741,088 shares Buffalo Small Cap Fund, 843,993 shares
Common/Collective Trusts	RiverSource Trust Money Market Fund I*, 6,864,577 shares RiverSource Trust Equity Index Fund III*, 2,209,051 shares RiverSource Trust Income Fund I*, 97,652 shares RiverSource Trust Investment Grade Bond Fund*, 562,422 shares RiverSource Trust Bond Index Fund II*, 544,433 shares State Street Global Advisors S&P Midcap Index Fund, 339,474 s
Corporate Stocks: Common	Alliant Energy Corporation common stock*, 3,831,237 shares
Corporate Bonds	ARMT 2005 - 3 - 7A1, 5.09%, 4/25/35, par value \$135,355 AMCAR 2003 - CF A3, 2.75%, 10/9/07, par value \$45,164 AMCAR 2004 - AF A3, 2.18%, 7/7/08, par value \$127,270 AMCAR 2005 - BM - A3, 4.05%, 1/6/10, par value \$300,000 AMERICREDIT AUTOMOBILE REC., 4.87%, 12/6/10, par value \$200,000 AMSI 2005 - R9 - AF3, 5.10%, 11/25/35, par value \$315,000 BACM 2005 - 4 - A1, 4.43%, 7/10/45, par value \$136,248

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BACM 2005 - 6 - A2, 5.19%, 9/10/47, par value \$175,000  
 BOAA 2003 - 1 - A1, 5.00%, 2/25/33, par value \$101,613  
 BOAMS 2004 - E 2A6, 4.13%, 6/25/34, par value \$150,000  
 BALTA 2005 - 5 - 1 A1, 4.80%, 6/25/35, par value \$169,247  
 BSCMS 2005 - PWR9 - A1, 4.50%, 9/15/42, par value \$213,647  
 BSCMS 2005 - T20 - A2, 5.13%, 10/12/42, par value \$250,000  
 CDC COMMERCIAL MTGE, 5.68%, 11/15/30, par value \$175,000  
 CDBCM 2005 - CD1 A1, 5.05%, 9/15/20, par value \$247,950  
 CWALT 2005 - 6CB - 1A1, 7.50%, 4/25/35, par value \$60,810  
 CWL 2005 - 10 - AF6, 4.91%, 12/25/35, par value \$20,000  
 CWL 2005 - 17 - 1AF2, 5.36%, 12/25/35, par value \$125,000  
 CWALT INC 2005 - 54CB, 5.50%, 11/25/35, par value \$67,972  
 CWALT INC 2005 - 43, 5.50%, 11/25/35, par value \$72,681  
 CARAT 2005 - 1 - A4, 4.05%, 7/15/09, par value \$250,000  
 COAFT 2002 - B A4A, 3.32%, 4/15/09, par value \$73,263  
 COAFT 2003 - A A3A, 1.83%, 10/15/07, par value \$14,257  
 COAFT 2004 - A A3, 3.07%, 7/15/08, par value \$100,000  
 CGCMT 2005 - C3 - A1, 4.39%, 5/15/43, par value \$282,394  
 CMLTI 2005 - 5 - 1A2, 5.41%, 8/25/35, par value \$296,031  
 CSFB 2004 - C1 A2, 3.52%, 1/15/37, par value \$100,000  
 CSFB 2005 - C4 - A1, 4.77%, 8/15/38, par value \$214,519  
 CSFB 2005 - 8 - 7A1, 7.00%, 9/25/35, par value \$159,081  
 CSFB 2005 - 10 - 4A1, 6.50%, 11/25/35, par value \$98,241  
 CSFB - 05 - 12 - SA1, 7.00%, 12/25/35, par value \$150,000  
 FRNK 2004 - 2 - A4, 3.93%, 8/15/12, par value \$175,000  
 GMACC 2005 - C1 - A1, 4.21%, 5/10/43, par value \$94,416  
 GMACC 2002 - C2 - A1, 4.32%, 10/15/38, par value \$115,907

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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, 2005 (Continued)

Identity of issue, borrower, lessor, or similar party	Description of investment including maturity date, rate of interest, collateral, par or maturity value
Corporate Bonds (continued)	GMACM 2004 - HE2 - A4, 3.65%, 10/25/33, par value \$95,000 GSR 2005 - AR2 - 2A1, 4.88%, 4/25/35, par value \$237,103 GECMC 2005 - C3 - A2, 4.85%, 7/10/45, par value \$350,000 GCCFC 2005 - GG5 - A1, 4.79%, 4/10/37, par value \$247,333 HVMLT 05 - 4 3A, 5.178%, 1/19/35, par value \$204,021 HVMLT 2005 - 12 - 2A1A, 5.62%, 10/19/35, par value \$146,728 HERTZ VEHICLE FINANCING, 4.93%, 2/15/10, par value \$150,000 HART 2003 - A A3, 2.33%, 11/15/07, par value \$78,436 INDX 2005 - AR25 - A1, 5.91%, 12/25/35, par value \$99,204 JPMCC 2003 - C1 - A1, 4.27%, 1/12/37, par value \$197,987 JP MORGAN CHASE COMM MTGE, 4.65%, 8/15/42, par value \$262,280 JPMCC 2005 - LDP4 - A1, 4.61%, 10/15/42, par value \$269,958 LBUBS 2004 - C4 A2, 4.57%, 5/15/34, par value \$150,000 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 2005 - C1 - A1, 4.06%, 2/15/30, par value \$88,493 LBUBS 2005 - C3 - A1, 4.39%, 7/15/30, par value \$201,086 LBUBS 2005 - C5 - A2, 4.88%, 9/15/30, par value \$280,000

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LBART 2005 - B - A3, 4.41%, 5/15/10, par value \$200,000  
MARM 2004 - 3 3A2, 4.42%, 4/25/34, par value \$80,115  
MLMI 2005 - A1 - 2A1, 4.63%, 1/25/35, par value \$82,308  
MLMT 2005 - CIP1 - A1, 4.63%, 5/12/10, par value \$210,447  
MLMT 2005 - CK1 - A1, 5.03%, 11/12/37, par value \$175,000  
MSC 2003 - T11 A2, 4.34%, 6/13/41, par value \$250,000  
MSM 2004 - 2AR 3A, 5.03%, 2/25/34, par value \$142,431  
POPLR 2005 - 5 - AF3, 5.09%, 11/25/35, par value \$175,000  
RAMC 2005 - 3 - AF3, 4.77%, 10/25/35, par value \$100,000  
RAMC 2005 - 4 - A3, 5.56%, 2/25/36, par value \$70,000  
RALI SER 2003 - QS4 ABS, 5.50%, 9/25/33, par value \$68,751  
RASC 2004 - KS8 AI3, 3.84%, 9/25/34, par value \$125,000  
RASC SER 2002 - KS1, 5.86%, 11/25/29, par value \$493  
SARM 2005 - 15 - 4A1, 5.53%, 7/25/35, par value \$208,161  
SASCO CMO 2004 - 12H, 5.53%, 4/25/34, par value \$65,661  
TRIAD AUTO RECEIVABLES 2005 - A, 4.05%, 3/12/10, par value \$250,000  
WESTO 2003 - 4 A3, 2.39%, 1/22/08, par value \$42,997  
WBCMT 2003 - C8 - A2, 3.89%, 11/15/35, par value \$150,000  
WBCMT 2005 - C19 - A1, 4.17%, 6/15/42, par value \$166,464  
WBCMT 2005 - C16 - A2, 4.38%, 10/15/41, par value \$100,000  
WBCMT 2005 - C21 - A1, 4.87%, 10/17/44, par value \$220,488  
WAMU 2005 - AR3 - A2, 4.65%, 3/25/35, par value \$130,469  
WFMB 2005 - 5 - 3PT3, 5.50%, 5/25/35, par value \$296,596  
ABSA 2005 - CF A4, 4.63%, 6/6/12, par value \$300,000  
CS FIRST BOSTON MTGE SECURITIES, 5.10%, 8/15/38, par value \$250,000  
VENDEE 2003 - 2 C, 5.00%, 7/15/20, par value \$76,992  
WFMB, 5.00%, 10/25/35, par value \$337,553

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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, 2005 (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	<p>FHLMC GOLD #E91326, 6.50%, 9/1/17, par value \$67,063  FHLMC GOLD #E96180, 4.50%, 5/1/13, par value \$108,716  FHLMC GOLD #E96579, 4.50%, 6/1/13, par value \$129,693  FHLMC GOLD #E97247, 5.00%, 6/1/18, par value \$104,332  FHLMC MTN, 3.525%, 12/20/07, par value \$370,000  FHLMC GOLD #C66932, 6.00%, 5/1/32, par value \$56,626  FHLMC GOLD #B10776, 5.00%, 11/1/13, par value \$97,493  FHLB FLT RT NT, 4.73%, 9/6/07, par value \$330,000  FED HOME LN BANK, 4.625%, 1/18/08, par value \$540,000  FHLB, 3.00%, 5/15/06, par value \$215,000  FED 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 REF NOTE, 5.13%, 10/15/08, par value \$125,000  FHLMC, 4.63%, 12/19/08, par value \$575,000  FHLMC (NON GOLD) ARM #782436, 4.99%, 10/1/34, par value \$97,716  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, 4.50%, 10/15/08, par value \$85,000</p>

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FNMA 15YR #252260, 6.00%, 3/1/10, par value \$368,089  
 FNMA #254187, 5.00%, 12/1/08, par value \$203,392  
 FNMA #254291, 7.00%, 4/1/17, par value \$87,937  
 FNMA #254757, 5.00%, 3/31/13, par value \$101,758  
 FNMA #254793, 5.00%, 7/1/33, par value \$138,290  
 FNMA #357324, 5.00%, 1/1/33, par value \$334,721  
 FNMA #535170, 5.50%, 9/1/14, par value \$103,627  
 FNMA #545701, 7.00%, 7/1/12, par value \$88,936  
 FNMA #545864, 5.50%, 8/1/17, par value \$171,333  
 FNMA #555740, 4.50%, 9/1/18, par value \$215,590  
 FNMA #640996, 7.50%, 5/1/32, par value \$61,005  
 FNMA #646147, 7.00%, 6/1/32, par value \$177,881  
 FNMA #648349, 6.00%, 6/1/17, par value \$69,433  
 FNMA #677377, 5.50%, 1/1/33, par value \$358,656  
 FNMA 2002 - W4 A3, 5.30%, 5/25/42, par value \$4,396  
 FHLMC 2492 - B, 5.50%, 5/15/13, par value \$300,113  
 FNMA #200394, 5.50%, 7/25/23, par value \$264,441  
 FHLMC 2617 HD, 7.00%, 6/15/16, par value \$95,017  
 FNMA 2003 - 133 GB, 8.00%, 12/25/26, par value \$51,426  
 FHLMC 2641, 6.50%, 1/15/18, par value \$98,082  
 FNMA 2004 - W3 A14, 3.50%, 5/25/34, par value \$32,312  
 FNMA 2004 - W3 A15, 5.00%, 5/25/34, par value \$100,000  
 FNMA 2004 - 60 PA, 5.50%, 4/25/34, par value \$135,188  
 FHLMC 2657 NT, 5.00%, 1/15/16, par value \$136,430  
 FHLMC 2672 NT, 5.00%, 2/15/16, par value \$185,045  
 FHLMC 2662 DB, 5.00%, 2/15/16, par value \$139,589  
 FHLMC 2750 DB, 4.50%, 5/15/15, par value \$150,000  
 FHLMC 2843 - BA, 5.00%, 1/15/18, par value \$111,024  
 FHLMC 2907 - AG, 4.50%, 3/15/19, par value \$105,334

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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, 2005 (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 (continued)	FNMA #685433, 6.50%, 3/1/33, par value \$108,581
	FNMA #705304, 4.91%, 6/1/33, par value \$151,594
	FNMA #725090, 4.81%, 11/1/33, par value \$127,717
	FNMA #725425, 5.50%, 4/1/34, par value \$311,561
	FNMA ARM #725737, 4.53%, 8/1/34, par value \$92,946
	FNMA #725815, 6.00%, 12/1/33, par value \$205,805
	FNMA #735057, 4.50%, 1/1/19, par value \$184,727
	FNMA #735935, 5.00%, 12/1/18, par value \$347,119
	FNMA #741897, 5.00%, 10/1/33, par value \$105,553
	FNMA #763798, 5.50%, 3/1/34, par value \$281,339
	FNMA #764082, 4.76%, 1/1/34, par value \$103,655
	FNMA ARM #799769, 5.06%, 11/1/34, par value \$119,384
	FNMA ARM #801344, 5.07%, 10/1/34, par value \$117,854
	FNMA #809534, 5.07%, 2/1/35, par value \$109,608
	FNMA ARM #813570, 4.40%, 10/1/34, par value \$82,456
	FNMA ARM #826908, 5.15%, 8/1/35, par value \$193,568
	FNMA #844705, 5.86%, 12/1/35, par value \$172,595

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U.S. TREASURY BOND, 6.25%, 8/15/23, par value \$150,000  
U.S. TREASURY BOND, 6.00%, 2/15/26, par value \$590,000  
U.S. TREASURY NOTE, 2.25%, 2/15/07, par value \$620,000  
U.S. T-NOTE, 4.13%, 5/15/15, par value \$270,000  
U.S. T-NOTE, 3.625%, 6/30/07, par value \$940,000  
U.S. TREASURY NOTE, 4.25%, 11/30/07, par value \$875,000  
FNMA, 4.25%, 9/15/07, par value \$315,000  
FNMA, 3.875%, 5/15/07, par value \$425,000  
FHLMC, 3.63%, 9/15/06, par value \$135,000  
FEDERAL HOME LOAN BANK, 4.63%, 11/21/08, par value \$990,000  
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

Investment Contracts

Monumental Life Insurance Company, 4.66%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
Bank of America NA, 4.93%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
Rabobank International, 4.52%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
IXIS Capital Markets, 3.84%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
JP Morgan Chase & Co., 4.23%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
UBS Warburg, 3.98%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
State Street Bank and Trust Company, 3.74%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
AIG Financial Products Corp., 4.01%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
JP Morgan Chase II, 4.59%, 12/31/50  
Synthetic Guaranteed Investment Contract Wrapper  
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

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



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FOR THE YEAR ENDED DECEMBER 31, 2005

Identity of issue, borrower, lessor, or similar party	Description of investment including maturity date, rate of interest, collateral, par or maturity value	Co Acqui
Corporate Bonds	ARMT 2005 - 3 - 7A1, 5.09%, 4/25/35 BACM 2005 - 4 - A1, 4.43%, 7/10/45 BALTA 2005 - 5 - 1 A1, 4.80%, 6/25/35 BSCMS 2005 - PWR9 - A1, 4.50%, 9/15/42 CDBCM 2005 - CD1 A1, 5.05%, 9/15/20 CWALT 2005 - 6CB - 1A1, 7.50%, 4/25/35 CWALT INC 2005 - 54CB, 5.50%, 11/25/35 CWALT INC 2005 - 43, 5.50%, 11/25/35 CGMCT 2005 - C3 - A1, 4.40%, 5/15/43 CMLTI 2005 - 5 - 1A2, 5.41%, 8/25/35 CSFB 2005 - C4 - A1, 4.77%, 8/15/38 CSFB 2005 - 8 - 7A1, 7.00%, 9/25/35 CSFB 2005 - 10 - 4A1, 6.50%, 11/25/35 DCAT 2005 - A A3, 3.49%, 12/8/08 GMACC 2005 - C1 - A1, 4.21%, 5/10/43 GSR 2005 - AR2 - 2A1, 4.86%, 4/25/35 GPMF 2005 - AR3 - 1A1, 4.43%, 6/25/45 GCCFC 2005 - GG5 - A1, 4.79%, 4/10/37 HVMLT 2005 - 3 - 2A1A, 4.61%, 6/19/35 HVMLT 05 - 4 3A, 5.17%, 1/19/35 HVMLT 2005 - 12 - 2A1A, 5.62%, 10/19/35 HAROT 2005 - 1 - A3, 3.53%, 10/21/08 INDX 2005 - AR25 - A1, 5.91%, 12/25/35 JPMCC 2003 - C1 - A1, 4.28%, 1/12/37 JP MORGAN CHASE COMM, 4.66%, 8/15/42 JPMCC 2005 - LDP4 - A1, 4.61%, 10/15/42 LBUBS 2005 - C1 - A1, 4.06%, 2/15/30 LBUBS 2005 - C3 - A1, 4.39%, 7/15/30 MLMI 2005 - A1 - 2A1, 4.59%, 1/25/35 MLMT 2005 - CIP1 - A1, 4.63%, 5/12/10 NAROT 2005 - A - A3, 3.54%, 10/15/08 RASC 2004 - KS9 - AII2, 4.48%, 10/25/34 SARM 2005 - 15 - 4A1, 5.53%, 7/25/35 VWALT 2004 - A - A3, 2.84%, 7/20/07 WAMU 2005 - AR2 - 2A2A, 4.75%, 1/25/45 WBCMT 2005 - C19 - A1, 4.17%, 6/15/42 WBCMT 2005 - C21 - A1, 4.87%, 10/17/44 WAMU 2005 - AR3 - A2, 4.65%, 3/25/35 WFMBS 2005 - 5 - 3PT3, 5.50%, 5/25/35 WFMBS, 5.00%, 10/25/35	

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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, 2005

Identity of Party Involved and Description of Assets -----	Total Number of Purchases -----	Total Value of Purchases (1) -----	Total Number of Sales -----	Net Selling Price (1) -----
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:				
RiverSource Trust Money Market Fund I*, f/k/a				
American Express Trust Money Market Fund I	461	\$62,154,696	498	\$58,838,

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

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 28th day of June 2006.

ALLIANT ENERGY CORPORATION  
401(k) SAVINGS PLAN

/s/ Christopher J. Lindell  
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Christopher J. Lindell

The foregoing person is the Vice President - Shared Services of Alliant Energy Corporation and Alliant Energy Corporate Services, Inc., 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, 2005

Exhibit No.

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Exhibit

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Consent of Independent Registered Public Accounting Firm

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