FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940.

1. Name and Address of Reporting Person*  WRIGHT LORI A  (Last) (First) (Middle)  C/O GREAT PLAINS ENERGY INCORPORATED						Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]      Indeed and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]      Indeed and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]      Indeed and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]      Indeed and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]									Relationship of Reporting Person(s) to Issuer Check all applicable)  Director 10% Owner  X Officer (give title below)  VP and Controller				wner	
1200 MAIN STREET  (Street)  KANSAS CITY MO 64105  (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	Individual or Joint/Group Filing (Check Applicable ine)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transac Date (Month/Da					action	ction 2A. Deeme Execution			3. Transa Code (I	ction	4. Secur	Securities Acquired (A) isposed Of (D) (Instr. 3,			5. Amo Securit Benefic Owned	unt of ies cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) (D)	or F	Price	Reporte Transac (Instr. 3	ction(s) and 4)			(Instr. 4)	
Common Stock  Common Stock  02/0					5/2010				F		1,956 <sup>(2)</sup>		) :	\$17.44	2,826 <sup>(1)</sup> 15,341 <sup>(3)</sup>			I D	401-k	
	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 E if any (Month/Day	Date,	4. Transa Code ( 8)		n of		6. Date Ex Expiration (Month/Da	Date		e and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		Do Se (Ir urity	Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y G	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Co	Code	v	(A)		Date Exercisabl		xpiration ate	Title	or Nur of	ount mber ares						
Stock options (right to	(4)								(4)	T	(4)	Common	1,3	312		1,312		D		

## **Explanation of Responses:**

- 1. Amount includes 669 shares acquired between May 5, 2009, and February 6, 2010, from automatic payroll deduction/investment and participation in the Company's 401-K Plan.
- 2. Relinquished to the Company for withholding taxes incident to the vesting of restricted stock on February 6, 2010.
- 3. Amount includes 417 shares acquired between May 5, 2009, and February 6, 2010, through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.
- 4. Stock options granted in tandem with stock appreciation rights exercisable automatically in the event of a change in control as defined by the Long-Term Incentive Plan under which they are granted. Options may be exercised with cash or previously-owned shares of Common Stock.

## Remarks:

buy)<sup>(4)</sup>

Lori A. Wright

02/09/2010

Date

\*\* Signature of Reporting Person

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

- \* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.