SEC	Form	4
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### FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									

Estimated average burden
hours per response: 0.5

1. Name and Addres <u>RIGGINS WI</u>	s of Reporting Person LLIAM <u>G</u>	n*	2. Issuer Name and Ticker or Trading Symbol <u>GREAT PLAINS ENERGY INC</u> [ GXP ]		ationship of Reporting Pers ( all applicable) Director Officer (give title	son(s) to Issuer 10% Owner Other (specify		
(Last) C/O GREAT PLA 1200 MAIN STR		(Middle) NCORPORATED	3. Date of Earliest Transaction (Month/Day/Year) 03/02/2010	А	below) General Counsel	below)		
(Street) KANSAS CITY (City)	MO (State)	64105 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				

### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1130.4)	
Common Stock								2,913	Ι	401-k	
Common Stock	03/02/2010		A		210 <sup>(1)</sup>	A	<b>\$0</b> <sup>(1)</sup>	22,278	D		
Common Stock	03/02/2010		Α		3,384(2)	Α	<b>\$0</b> <sup>(2)</sup>	25,662	D		

# 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 Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deriv	r osed ) r. 3, 4	Expiration Date (Month/Day/Year)		ate Amount of		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Options (Right-to- buy) <sup>(3)</sup>	\$25.55							02/06/2004	02/06/2011	Common Stock	6,000		6,000	D	
Stock Options (Right-to- buy) <sup>(3)</sup>	\$24.9							02/05/2005	02/05/2012	Common Stock	6,000		6,000	D	
Stock Options (Right-to- buy)	\$27.73							08/05/2006	08/05/2013	Common Stock	1,000		1,000	D	

Explanation of Responses:

1. Award of common stock pursuant to performance share grant under the Company?s Long-Term Incentive Plan.

2. Award of restricted stock pursuant to the Company?s Long-Term Incentive Plan.

3. 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:

William G. Riggins

03/04/2010

Date

\*\* Signature of Reporting Person

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

 $^{\ast}$  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.