SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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 hours per response: 0.5

1. Name and Address of Reporting Person [*] CURRY BARBARA B			2. Issuer Name and Ticker or Trading Symbol <u>GREAT PLAINS ENERGY INC</u> [GXP]		ationship of Reporting Pe < all applicable) Director Officer (give title	erson(s) to Issuer 10% Owner Other (specify
(Loct)	(Firot)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)		below)	below)
(Last)	(First)	(Midule)	03/02/2010		SVP-HR and Co	morate Sec
C/O GREA	T PLAINS ENER	GY INCORPORATED	03/02/2010		5 VI -IIIC allu Col	ipolate sec.
1200 MAIN	N STREET					
			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv	vidual or Joint/Group Fili	ng (Check Applicable
				Line)		
(Street)				v	Form filed by One Re	norting Person
KANSAS (CITY MO	64105			I offit filed by offer the	porting r croon
ļ					Form filed by More th Person	an One Reporting
(City)	(State)	(Zip)				

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)		4. Securities Disposed Of 5)			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								1,234(1)	I	401-k	
Common Stock	03/02/2010		Α		440 ⁽²⁾	A	\$0 ⁽²⁾	45,791	D		
Common Stock	03/02/2010		Α		3,918 ⁽³⁾	A	\$0 ⁽³⁾	49,709	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 Secu Acqu (A) or Dispo of (D)	(Month/Day/Year) ccurities cquired) or sposed (D) str. 3, 4		7. Title Amour Securi Underl Deriva Securi and 4)	nt of ties ying tive ty (Instr. 3	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				

Explanation of Responses:

1. Amount includes 12 shares acquired between February 6, 2010, and March 2, 2010, from automatic payroll deduction/investment and participation in the Company?s 401-K Plan.

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

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

Remarks:

Executed on behalf of BarbaraB. Curry by Mark G. English,03/04/2010attorney-in-fact

** Signature of Reporting Person Date

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.