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# FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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4 or Form 5
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## 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* SHERMAN JOHN J			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>GREAT PLAINS ENERGY INC</u> [ GXP ]		ationship of Reporting P ( all applicable) Director	erson(s) to Issuer 10% Owner	
(Last) (First) (Middle) C/O GREAT PLAINS ENERGY INCORPORATED	3. Date of Earliest Transaction (Month/Day/Year) 06/01/2010		Officer (give title below)	Other (specify below)			
1200 MAIN	1200 MAIN STREET		4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Filing (Check Applicable		
(Street)				X	Form filed by One Re	eporting Person	
KANSAS (	CITY MO	64105			Form filed by More the Person	nan 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)					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)		
Common Stock	06/01/2010		Α		3,223	Α	\$ <mark>0</mark>	4,848(1)	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)		5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5	Expiration Date (Month/Day/Year) sed 3,4		xpiration Date 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				

Explanation of Responses:

1. Amount includes 52 shares acquired from July 28, 2009, through June 1, 2010, through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan. **Remarks:** 

# Executed on behalf of John J.

Sherman by Mark G. English, attorney-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.

06/03/2010