

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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* <u>RIGGINS WILLIAM G</u> (Last) (First) (Middle) <u>C/O GREAT PLAINS ENERGY INCORPORATED</u> <u>1200 MAIN STREET</u> (Street) <u>KANSAS CITY MO 64105</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>GREAT PLAINS ENERGY INC [GXP]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) Former General Counsel and CLO
	3. Date of Earliest Transaction (Month/Day/Year) <u>10/07/2010</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> 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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock								3,011 ⁽¹⁾	I	401(k)
Common Stock	10/07/2010		D		15,471 ⁽²⁾⁽³⁾	D	\$0	10,312	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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		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)	\$25.55	10/07/2010		D			6,000 ⁽⁴⁾	02/06/2004	02/06/2011	Common Stock	6,000	\$0	0	D	
Stock Options (Right-to-buy)	\$24.9	10/07/2010		D			6,000 ⁽⁴⁾	02/05/2005	02/05/2012	Common Stock	6,000	\$0	0	D	
Stock Options (Right-to-buy)	\$27.73	10/07/2010		D			1,531 ⁽⁴⁾⁽⁵⁾	08/05/2006	08/05/2013	Common Stock	1,531 ⁽⁵⁾	\$0	0	D	

Explanation of Responses:

- Amount includes 66 shares acquired between May 5, 2010, and October 7, 2010, from automatic payroll deduction and investment in the Company's 401(k) Plan
- Forfeiture of restricted stock upon separation.
- Amount includes 344 shares acquired between May 5, 2010, and October 7, 2010, through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.
- Forfeiture of stock options upon separation.
- Corrected amount.

Remarks:

Executed on behalf of William G. Riggins by Mark G. English, 10/12/2010 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.

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