FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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0.5

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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*					2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
SHAY JAMES C						OIN	GREAT FLAMO ENERGY INC [GAP]									X	Director Officer (give title				specify
(Last) (First) (Middle) C/O GREAT PLAINS ENERGY INCORPORATED 1200 MAIN STREET					3. Date of Earliest Transaction (Month/Day/Year) 11/02/2010										SVP, CFO						
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Indivi ne)	,					
KANSAS CITY MO 64105																Form filed by More than One Reporting Person					
(City)		(State	2) (2	Zip)																	
			Table	e I - Non	-Deriva	ative	_			quired,	Dis						Owne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				n/Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)					nd	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)			
											v	Amount		(A) or (D)	Price		Transaction(s) (Instr. 3 and 4)				(IIISU. 4)
Common Stock 11/02/						/2010				P		1,250) A		\$19	.2	29,723(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	on Da se (N	Transaction ate Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date, T	4. Transaction Code (Instr. 8)				6. Date E Expiratio (Month/D	n Date	9	7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)		str. 3			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: t (D) lirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						Code	v	(A) (D)		Date Exercisa		Expiration Date	Title	or Nun of	ount nber res						

Explanation of Responses:

1. Amount includes 297 shares acquired between August 18, 2010, and November 2, 2010, through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.

Remarks:

James C. Shay

11/04/2010

** 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.