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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. <i>See</i> Instruction 1(b).
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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

- 1	Estimated average burden hours per response:	0.5
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1. Name and Address BASSHAM T	s of Reporting Persor ' <u>ERRY D</u>	1*	2. Issuer Name and Ticker or Trading Symbol <u>GREAT PLAINS ENERGY INC</u> [GXP]		tionship of Reporting Pers all applicable) Director	on(s) to Issuer 10% Owner	
,				X	Officer (give title	Other (specify	
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)		below)	below)	
C/O GREAT PLA	AINS ENERGY II	NCORPORATED	02/10/2011		EVP - Utility Operations		
1200 MAIN STR	EET						
,			4. If Amendment, Date of Original Filed (Month/Day/Year)		idual or Joint/Group Filing	(Check Applicable	
(Street)				Line)	Form filed by One Dens	arting Doroon	
KANSAS CITY	MO	64105		X	Form filed by One Repo		
,					Form filed by More than Person	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 A Disposed Of (I			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	02/10/2011		F		11,798(1)	D	\$19.97	100,636	D		

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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		6. Date Exerc Expiration Da (Month/Day/M	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				

Explanation of Responses:

1. Relinquished to the Company for withholding taxes incident to vestings of restricted stock on February 10, 2011.

Remarks:

Terry Bassham

02/14/2011 Date

** Signature of Reporting Person

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.