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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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

Name and Address of Reporting Person*     CHESSER MICHAEL J						2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]								(Ch	Relationship of eck all applic Directo	able) r	g Pers	10% Ow	ner
(Last) 1201 WAI	`	(First	) (M		3. Date of Earliest Transaction (Month/Day/Year) 02/01/2005									X Officer (give title Other (specify below)  Chairman and CEO					
(Street) KANSAS CITY MO 64106						4. If	Ame	ndment, D	ate of	Original I	Filed	(Month/Day	//Year)	Line	X Form f	iled by One iled by Mor	e Repo	(Check App orting Persor One Repor	ı
(City)	(	(State	e) (Z	Zip)											Persor	)			
Date					2. Trans	saction	ar)	CURITIES  2A. Deeme Execution if any (Month/Day	d Date,	3. Transa Code (	ction	4. Securit	ies Acquire		5. Amou Securitie Benefici Owned F	s ally following	Form (D) o	: Direct   I r Indirect   I str. 4)   (	7. Nature of ndirect Beneficial Ownership
										Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)			(Instr. 4)
Common S	n Stock <sup>(1)</sup> 02/01/2005 <sup>(1)</sup> (1) P V 18 A (1) 18								I	401-k									
Common S	Stock														38,8	371 <sup>(2)</sup>			
			Т									osed of, onvertib			Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversi or Exerci Price of Derivativ Security	ercise of ative	3. Transaction Date (Month/Day/Year)	3A. Deemde Execution if any (Month/Da	Date,	4. Transaction Code (Instr 8)				6. Date E Expiratio (Month/D	n Dat		of Securi Underlyir Derivativ	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
						Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares					
Performance Shares <sup>(3)</sup>	(3)		02/01/2005	02/01/2	2005	A		30,233		(3)		(3)	Common Stock	30,233	(3)	30,233	(3)	D	
Performance	(4)		02/01/2005	02/01/2	2005	A		30,233		(4)	T	(4)	Common	30,233	(4)	60,466	(4)	D	

## Explanation of Responses:

- 1. Shares acquired during the month of January 2005 through automatic payroll deduction/investment and participation in the Company's 401-k Plan.
- 2. Amount includes/reflects 36,405 restricted shares.
- 3. Performance Shares awarded under the Long-Term Incentive Plan. Payment to which Grantee shall be entitled at the end of 2006 will be based on Grantee's performance and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded.
- 4. Performance Shares awarded under the Long-Term Incentive Plan. Payment to which Grantee shall be entitled at the end of 2007 will be based on Grantee's performance and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded.

## Remarks:

/s/Michael J. Chesser

02/02/2005

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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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