FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF	CHANGES	IN B	ENEFI	CIAL	OWNE	RSHIP

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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* CHESSER MICHAEL J					2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]											all app	onship of Reporting P II applicable) Director		Person(s) to Issuer 10% Owner			
(Last) 1201 WA	(LNUT S	(First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 05/06/2008										X	belov	cer (give title ow) Chief Executiv		Other (specify below)	
(Street) KANSAS	S CITY 1	MO State		54106 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
			Tabl	e I - No	n-Deriv	ative	Se	ecuri	ities	Acq	uired,	Dis	posed o	f, o	r Ben	efici	ally	Owne	ed			
Date				Date	Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 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		Transac		action(s) 3 and 4)			(111301. 4)	
Common Stock																1,032(1)			I	ESP 401-K		
Common Stock 05/06/					5/2008	/2008				A	A 11,442		(2)) A \$0		5 <mark>0</mark>	148,617(3)			D		
			Та										sed of, onvertib					wned				
1. Title of Derivative Security (Instr. 3)	2. Conversio or Exercis Price of Derivative Security	n D e (f	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,		Transaction Code (Instr		n of		6. Date E Expiratio (Month/D	n Dat		7. Title and Amount of Securities Underlying Derivative Security (Instrand 4) Amou or Numb of Title Share		ount			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	, [C	LO. Ownership Form: Direct (D) Or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						Code		(4	A) (1		Date Exercisable		Expiration Date									

Explanation of Responses:

- 1. Amount includes 387 shares acquired between October 1, 2007 and May 6, 2008 from automatic payroll deduction/investment and participation in the Company's 401-K Plan.
- 2. Award of restricted stock pursuant to the Company's Long-Term Incentive Plan.
- 3. Amount includes/reflects 116,424 restricted shares and 3,219 shares acquired between October 1, 2007 and May 6, 2008 through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.

Remarks:

05/08/2008 /s/ Michael J. Chesser

** 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.