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

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSH
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OMB APPROVAL

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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

Name and Address of Reporting Person* Heidtbrink Scott							2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]									all app Direc		g Perso	10% C	wner	
(Last) 1201 WA	(Fi LNUT STI	rst) (3. Date of Earliest Transaction (Month/Day/Year) 09/17/2008									X	belov	,	orate S	Other (specif below) ate Services			
(Street) KANSAS CITY MO 64106 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tabl	e I - Noi	n-Deriv	/ative	Sec	curitie	s Acq	uired,	Dis	posed o	f, or	Bene	eficia	ally C	Owne	ed				
1. Title of Security (Instr. 3) 2. Transa Date (Month/L						action 2A. Deemed Execution Date, if any (Month/Day/Year)					Disposed	rities Acquired (A) ed Of (D) (Instr. 3, 4			and Secur Benef		cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	Amount	(A	A) or D)	Price	. [Transaction(s) (Instr. 3 and 4)				(
Common												24 ⁽¹⁾			I	401(k)					
Common Stock 09/17						3			P		126		Α	\$22	.62	11,189		1	D		
		Та									sed of, onvertib				y Ow	ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date, Transac Code (Ir					6. Date E Expiratio (Month/D	n Date	е	7. Title and Amount of Securities Underlying Derivative Security (Instr and 4)				vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(: (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	nership rm: ect (D) Indirect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisal		Expiration Date	Title	Amo or Nun of Sha								

Explanation of Responses:

1. Amount includes 24 shares acquired between August 5, 2008 and September 17, 2008 from automatic payroll deduction/investment and participation in the Company's 401(k) Plan.

Remarks:

Executed on behalf of Scott
Heidtbrink by Mark G.
English, 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.

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.