FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	)VAL				
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

1. Name and Address of Reporting Person*  Heidtbrink Scott							2. Issuer Name <b>and</b> Ticker or Trading Symbol GREAT PLAINS ENERGY INC [ GXP ]								theck all ap	plicable)		ssuer Owner (specify	
(Last) (First) (Middle) C/O GREAT PLAINS ENERGY INCORPORATED 1200 MAIN STREET						3. Date of Earliest Transaction (Month/Day/Year) 03/01/2011									X belo	w) T	below - Supply		
(Street) KANSAS CITY MO 64105 (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)										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 - Noi	n-Deriv	ative	Se	curiti	es Ac	quirec	, Dis	posed	of, o	r Ben	eficia	ally Own	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)						Execution Date,			Code	Transaction Disposed Of (D) (Instr. 3, Code (Instr. 5)					nd Secu Bene	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
						Code	· v	Amount	mount (A) or (D)		Price	Trans	action(s) 3 and 4)		(Instr. 4)				
Common	Stock										1	,842(1)	I	401(k)					
Common Stock 03/01/											7,006	G <sup>(2)</sup> A		\$0	40,884 <sup>(3)</sup>		D		
		Та									osed of, onverti				y Owned	l			
1. Title of Derivative Security  2. Conversion or Exercise Price of Derivative Security  3. Transaction Date (Month/Day/Yea			3A. Deem Execution if any (Month/Da	n Date, Transaction Code (Ins		Instr	of Deriving Security (A) of (Dispose)	osed ) r. 3, 4	Expirat	e Exercisable and tion Date h/Day/Year)  Expiration sable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of		ount nber	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

## Explanation of Responses:

- 1. Amount includes 190 shares acquired between July 14, 2010 and March 1, 2011, 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 565 shares acquired between July 14, 2010 and March 1, 2011, by reinvestment of stock dividends through the Company's Dividend Reinvestment Direct Stock Purchase Plan.

## Remarks:

Scott Heidtbrink 03/03/2011

\*\* 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.