FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFIC	IAL 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* BODDE DAVID L					2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]										ck all appl	or 10% Own		vner			
	•	IS ENERGY IN	Middle)	ATED	06/	3. Date of Earliest Transaction (Month/Day/Year) 06/01/2010										below		Other (specifibelow)			
(Street) KANSAS CITY MO 64105 (City) (State) (Zip)					7.1	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					
		Tab	le I - Non	-Deriv	ative	e Se	curitie	s Ac	qu	ired, I	Disp	osed o	of, or B	enef	ficiall	y Owne	d				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		•,	Code (Instr					5. Amou Securiti Benefic Owned Reporte	es ally Following	Form (D) o	r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership				
										Code	v	Amount	(A) (D)	or I	Price	Transac (Instr. 3	ction(s)			(Instr. 4)	
Common Stock							\neg					\top		15,	15,076(1)		D				
Common Stock														1,	1,000			Trust for Mother			
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemee Execution I if any (Month/Day	Date,	4. Transa Code (B)		ı of		Exp	Date Exe piration l onth/Day	Date		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		urity	3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Dat Exe	te ercisable		opiration	Title	or Nui of	mber ares						
Director Deferred Share	(2)	06/01/2010			A		3,223			(2)		(2)	Common Stock	3,	223	\$0	7,943 ⁽³	3)	D		

Explanation of Responses:

- 1. Includes 658 shares acquired between May 26, 2009 and June 1, 2010 through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.
- 2. Director Deferred Share Units are granted under the Long-Term Incentive Plan. Each unit represents the right-to-receive one share of Great Plains Energy Common Stock, plus stock reflecting reinvested dividends. Units are converted to stock and distributed on the January 31 following the date of termination of service on the Board.
- 3. Amount includes 193 Director Deferred Share Units accrued from May 26, 2009, to June 1, 2010, through dividend reinvestment.

Remarks:

Executed on behalf of David L Bodde by Mark G. English, 06/03/2010 attorney-in-fact

** 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.