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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL 3235-0287 OMB Number:

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1. Name and Addres <u>DESTEFANC</u>	1 0	Person*	2. Issuer Name and Ticker or Trading Symbol <u>GREAT PLAINS ENERGY INC</u> [GXP]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title V Other (specify
(Last) 1201 WALNUT	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 08/23/2005	below) Pres of GPP (GPE subsidiary)
(Street) KANSAS CITY (City)	MO (State)	64106 (Zip)	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

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Disposed Of			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	Transaction(s) (Instr. 3 and 4)		(1130.4)		
Common Stock ⁽¹⁾	08/23/2005(1)	(1)	Р	v	320	A	(1)	12,390	I	401-k		
Common Stock ⁽²⁾	08/23/2005(2)	(2)	Р	v	27	A	(2)	291	D			
Common Stock	08/23/2005	08/23/2005	S		291	D	\$30.9624	0	D			

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. Deemed Execution Date, if any (Month/Day/Year)		Transaction of Expiration Date Code (Instr. Derivative (Month/Day/Year)		ate	7. Title an of Securiti Underlyin Derivative (Instr. 3 ar	es g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Options (Right to Buy) ⁽³⁾	\$24.9							02/05/2005	02/05/2012	Common Stock ⁽³⁾	(3)		1,983	D	
Performance Shares ⁽⁴⁾	(4)							(4)	(4)	Common Stock	1,474 ⁽⁴⁾		1,474	D	
Performance Shares ⁽⁵⁾	(5)							(5)	(5)	Common Stock	2,247 ⁽⁵⁾		3,721	D	
Performance Shares ⁽⁶⁾	(6)							(6)	(6)	Common Stock	2,247(6)		5,968	D	

Explanation of Responses:

1. Shares acquired since last report through August 22, 2005 through automatic payroll deduction/investment and participation in the Company's 401-k Plan.

2. Shares acquired at various times and prices from automatic reinvestment of quarterly dividends through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.

3. Options were granted in tandem with stock appreciation rights exercisable automatically in the event of a change in control as defined by the Long-Term Incentive Plan under which they were granted. Options may be exercised with cash or previous-owned shares of Common Stock.

4. Award of Performance Shares awarded under the Long-Term Incentive Plan. Payment to which Grantee shall be entitled at the end of 2005 will be based on the performance of the Company and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded.

5. Award of 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 the performance of the Company and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded.

6. Award of 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 the performance of the Company and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded.

Remarks:

/s/John J. DeStefano

08/24/2005 Date

** 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.

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