

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL	
OMB Number:	3235-0287
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1. Name and Address of Reporting Person* MOORE NANCY J			2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) Former VP of KCPL		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/29/2005			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
1201 WALNUT			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street) KANSAS CITY MO 64106								
(City) (State) (Zip)								

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 Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock ⁽¹⁾	07/29/2005 ⁽¹⁾	(1)	P	V	25	A	(1)	6,169	I	IRA
Common Stock								1,882	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)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	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
Stock Options (Right to Buy) ⁽²⁾	(2)	07/29/2005	(2)	D			1,866	(2)	(2)	Common Stock	1,866 ⁽²⁾	(2)	0 ⁽²⁾	D	
Performance Shares ⁽³⁾	(3)							(3)	(3)	Common Stock	1,388 ⁽³⁾		1,388 ⁽³⁾	D	
Performance Shares ⁽⁴⁾	(4)							(4)	(4)	Common Stock	353 ⁽⁴⁾		1,741 ⁽⁴⁾	D	
Performance Shares ⁽⁵⁾	(5)							(5)	(5)	Common Stock	235 ⁽⁵⁾		1,976 ⁽⁵⁾	D	

Explanation of Responses:

- Shares acquired since last report through July 29, 2005 and held in an IRA. These shares were rolled over from the Company's 401-k Plan after Ms. Moore's retirement on April 29, 2005.
- Under the terms of the Long-Term Incentive Plan, options forfeit 90 days after Ms. Moore's retirement on April 29, 2005.
- 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.
- 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 Grantee's performance and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded. Due to Ms. Moore's retirement on April 29, 2005, these shares have been prorated based upon her four months of service during the period of January 1, 2005 and ending on December 31, 2006 pursuant to the terms of the Plan.
- 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 Grantee's performance and paid in Common Stock in an amount ranging from zero (0) to 200 percent (200%) of the performance shares awarded. Due to Ms. Moore's retirement on April 29, 2005, these shares have been prorated based upon her four months of service during the period of January 1, 2005 and ending on December 31, 2007 pursuant to the terms of the Plan.

Remarks:

/s/Nancy J. Moore 07/28/2005
 ** 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.