FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

| OMB APPRO | OVAL |
|------------------------|---------------------------------------|
| 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* WRIGHT LORI A (Last) (First) (Middle) C/O GREAT PLAINS ENERGY INCORPORATED 1200 MAIN STREET | | | | | | 3. D | Susuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP] Date of Earliest Transaction (Month/Day/Year) 02/10/2011 | | | | | | | | | | Check a | II app | er (give title | | 10% O Other (below) | wner (specify |
|--|--|----------------|--|---|-------|---|--|---------|--|-----------------|---|------------|----------------|---|--|-------|--|---|---|---|--|---|
| (Street) KANSAS CITY MO 64105 (City) (State) (Zip) | | | | | | 4. If | 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 | | | | | |
| Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | | | | | | | | | | | | | | | | | | |
| 1. Title of Security (Instr. 3) 2. Transac Date (Month/Date) | | | | | | | Execution Da | | | Code | sactio (Inst | n Disposed | | ities Acquired (A) d Of (D) (Instr. 3, 4 | | | nd S B C | 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 | A | Amount | (1) | A) or D) | Price | | Transaction(s) (Instr. 3 and 4) | | | | , |
| Common Stock | | | | | | | | | | T | | | | | | | 145 | | | I | 401(k) | |
| Common Stock 02/10/ | | | | | | | 1 | | | F | T | | 813(1) | | D | \$19 | .97 15,774 | | 5,774 | | 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 | on Da se (M | 3. Transaction Date (Month/Day/Year) | 3A. Deeme Execution if any (Month/Da | Date, | 4. Transaction Code (Instr. 8) | | of | | Expirat | 6. Date Exercisabl Expiration Date (Month/Day/Year) | | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) | | | | | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(: (Instr. 4) | , 1 | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | Beneficial Ownership (Instr. 4) |
| | | | | | | Code | v | (A) (D) | | Date Exercis | | | piration te | Title | Amount or Number of Shares | | | | | | | |

Explanation of Responses:

1. Relinquished to the Company for withholding taxes incident to the vesting of restricted stock on February 10, 2011.

Remarks:

Lori A. Wright

02/14/2011

** 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.