

**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                                 |           |
|--|-----------|
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|   |   |   |
|---|---|---|
| 1. Name and Address of Reporting Person*<br><u>SPRING RICHARD A</u><br><br>(Last) (First) (Middle)<br>1201 WALNUT<br><br>(Street)<br>KANSAS CITY MO 64106<br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>GREAT PLAINS ENERGY INC [ GXP ]</u> | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)<br><br>Director 10% Owner<br><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)<br>VP-Transmission (KCP&L) |
|   | 3. Date of Earliest Transaction (Month/Day/Year)<br>02/07/2006                        |   |
|   |   | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> 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. 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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|--------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price  |   |  |   |
| Common Stock <sup>(1)</sup>     |                                      |  |                                |   |   |            |        | 3,850 <sup>(1)</sup>  | I  | 401-k   |
| Common Stock <sup>(2)</sup>     | 02/07/2006                           | 02/07/2006   | M                              |   | 1,099   | A          | (2)    | 3,405   | D  |   |
| Common Stock <sup>(3)</sup>     | 02/07/2006                           | 02/07/2006   | A                              |   | 753   | A          | \$0    | 4,158 <sup>(3)</sup>  | D  |   |
| Common Stock                    | 02/07/2006                           | 02/07/2006   | F                              |   | 319   | D          | \$28.2 | 3,839 <sup>(4)</sup>  | 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 |   |  |  |   |  |
| Stock Options (Right to Buy) <sup>(5)</sup> | (5)  |                                      |  |                                |   |  |     | (5)  | (5)             | Common Stock  | (5)  | 13,890   | D   |  |
| Performance Shares <sup>(2)</sup>           | (2)  | 02/07/2006                           | 02/07/2006   | M                              |   | 1,099  |     | (2)  | (2)             | Common Stock  | 1,099                                      | (2)  | 0   | D  |

**Explanation of Responses:**

- Amount includes 366 shares acquired from February 1, 2005 through January 31, 2006 through automatic payroll deduction/investment and participation in the Company's 401-k Plan.
- The reporting person was granted 1,405 performance shares. The amount payable ranged from 0 to 200% based on performance of the Company. Reporting person was granted 1,099 shares of common stock based on Company performance.
- Award of restricted stock pursuant to the Company's Long-Term Incentive Plan.
- Amount includes/reflects 753 restricted shares.
- 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 are granted. Options may be exercised with cash or previously-owned shares of Common Stock.

**Remarks:**

/s/Richard A. Spring

02/09/2006

\*\* 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.