FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

TATEMENT	OF CHANGES	S IN BENEFICIAL	OWNERSHIP

OWR APP	ROVAL
OMB Number:	3235-0287
Estimated average b	ourden
houre per recognese:	0.5

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* DOWNEY WILLIAM H				2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]										eck all applic Directo	cable) or	g Pers	Person(s) to Issuer 10% Owner Other (specify			
(Last) 1201 WAI	(Fi LNUT	rst) (I	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 02/07/2006] 2		Officer (give title below) President & C			specify	
(Street) KANSAS (City)			34106 Zip)		4. If Amendment, Date of Or					f Original Filed (Month/Day/Year)					G. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Noi	า-Deriv	ative	Sec	curiti	es Acc	quired,	Dis	posed o	f, or E	ene	ficiall	y Owned	<u> </u>				
Dat			Date	Transaction ate lonth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ities Acquired (A) od Of (D) (Instr. 3, 4			Benefici Owned F	es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									e V Amount			(A) or Price		Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common S	Stock ⁽¹⁾													1,009(1)			I	401-k		
Common Stock ⁽²⁾			02/07	/07/2006		02/07/2006		М		3,051	3,051 A		(2)	43,659(4)			D			
Common Stock ⁽³⁾		02/07	7/2006 0		02/07/2006		A		4,587		A	\$ <mark>0</mark>	48,246 ⁽⁵⁾			D				
		Т									osed of, onvertil				Owned					
L. Title of Derivative Security Instr. 3) 2. Conversion or Exercise Price of Derivative Security Security 1. Title of Conversion or Exercise (Month/Day/Year) 2. Conversion Date Execution if any (Month/D		n Date,	Code (Inst				6. Date Exercisa Expiration Date (Month/Day/Year		Amount of			8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e C s F ally C g (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	0 0	Amount or Number of Shares						
Stock Options (Right to Buy) ⁽⁶⁾	(6)								(6)		(6)	Comm Stock		(6)		45,249	(6)	D		
Performance	(2)	02/07/2006	02/07/	2006	M			3,051	(2)	T	(2)	Comm		3,051	(2)	0		D		

Explanation of Responses:

- 1. Amount includes 256 shares acquired from February 1, 2005 through January 31, 2006 through automatic payroll deduction/investment and participation in the Company's 401-k Plan.
- 2. The reporting person was granted 3,903 performance shares. The amount payable ranged from 0 to 200% based on performance of the Company. Reporting person was granted 3,903 performance shares of common stock based on Company performance.
- 3. Award of restricted stock pursuant to the Company's Long-Term Incentive Plan.
- 4. Amount includes 1,438 shares acquired from February 1, 2005 through January 31, 2006 through participation in the Company's Dividend Reinvestment and Direct Stock Purchase Plan.
- 5. Amount includes/reflects 24,487 restricted shares.
- 6. Stock options 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/William H. Downey

** Signature of Reporting Person

02/09/2006

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.