FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OWNERSHIP

Nachington	$D \subset$	205/10
Washington,	D.C.	20549

ANNUAL	STATEMENT	OF CHANGES	IN BENEFICIAL

OMB APPROVAL										
OMB Number:	3235-0362									
Estimated average bu	urden									
hours per response:	1.0									

Form 3 Holdings Reported.

Instruction 1(b)

Form 4 Transactions Reported. 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* MITCHELL JAMES A			2. Issuer Name and Ticker or Trading Symbol GREAT PLAINS ENERGY INC [GXP]						. Rel Ched	ck all app Direc	ship of Reporting P applicable) rector		10%	Owner			
(Last) (First) (Middle) 1281 GULF OF MEXICO DRIVE UNIT 202				3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2003						Year)		Officer (give title below)		•	Othe belo	er (specify w)	
(Street) LONGBO KEY (City)			4228 Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Line) X Form filed by One Reporting Post Form filed by More than One Reperson									erson				
		Table	e I - Non-Deriv	ative Sec	uritie	s Ac	quire	d, Di	sposed o	of, or	Benefici	ally	Owne	ed			
Date		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr.		4. Securities Acquired (A) or Dispos Of (D) (Instr. 3, 4 and 5)			or Disposed	Securit Benefic		ies O		ership n: Direct	7. Nature of Indirect Beneficial Ownership	
								Amount		(A) or (D)	Price		Issuer's Fiscal Year (Instr. 3 and 4)		Indirect (I) (Instr. 4)		(Instr. 4)
Common Stock ⁽¹⁾			02/04/2004 ⁽¹⁾	(1)	(1) P			67		A	(1)		2,188			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. Numof of Derive Securi Acqui (A) or Dispo of (D) (Instr. and 5	ative rities ired sed	Expira (Mont	e Exercisable and ation Date h/Day/Year) Expiration isable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		De Se	Price of rivative curity str. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership t (Instr. 4)

Explanation of Responses:

1. 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 during 2003.

Remarks:

James A. Mitchell

02/04/2004

** 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.