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SPIRE COR	P									
Form 4 August 10, 2	2010									
FORM									PPROVAL	
	UNITED	STATES		RITIES A shington			COMMISSIO	N OMB Number:	3235-0287	
Check th if no lon subject to Section 1 Form 4 c	ger o STATE 16. or			SECU	RITIES		WNERSHIP OI	Estimated burden hou response	urs per	
Form 5 obligatio may con <i>See</i> Instr 1(b).	tinue. Section 17	(a) of the l	Public U	Jtility Hol	ding Con		nge Act of 1934, of 1935 or Secti 940			
(Print or Type	Responses)									
1. Name and Address of Reporting Person <u>*</u> MAYER GUY L			2. Issuer Name and Ticker or Trading Symbol				5. Relationship of Reporting Person(s) to Issuer			
(Least)	(First)	(MGddla)	SPIRE CORP [SPIR]				(Check all applicable)			
(Last) (First) (Middle) C/O SPIRE CORPORATION, ONE PATRIOTS PARK			3. Date of Earliest Transaction (Month/Day/Year) 08/06/2010				X_ Director 10% Owner Officer (give title Other (specify below) below)			
DEDEODD	(Street)	<i>.</i>		endment, D onth/Day/Yea	-	1	Applicable Line) _X_ Form filed by	Joint/Group Fili y One Reporting Porting Porting Portion (Portional Portion (Portional Portion (Portional Portion (Portional Portion (Portional Portion (Portional Portion (Portion (Po	erson	
BEDFORD	, MA 01730-239	0					Person		1 0	
(City)	(State)	(Zip)	Tab	ole I - Non-l	Derivative	Securities A	cquired, Disposed	of, or Beneficia	lly Owned	
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deeme Execution any (Month/Da	Date, if TransactionAcquired (A) or Code Disposed of (D) ay/Year) (Instr. 8) (Instr. 3, 4 and 5 (A)			(A) or of (D) and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code V	Amount	(D) Price	(Instr. 3 and 4)			
Reminder: Rep	port on a separate lin	e for each cl	ass of sec	urities bene	ficially own	ned directly of	or indirectly.			
					infor n requir	nation cont ed to resp	spond to the collect tained in this form ond unless the fo ntly valid OMB co	n are not orm	SEC 1474 (9-02)	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(*e.g.*, puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amour
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	onof Derivative	Expiration Date	Underlying Securit
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)

number.

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(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 3	8)	Acquired (A) or Disposed (D) (Instr. 3, and 5)	d of				
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amo or Num of Share
Non-Qualified Stock Option (right to buy)	\$ 4.18	08/06/2010		А		2,000		08/06/2010	08/06/2020	Common Stock	2,0

Reporting Owners

Reporting Owner Name / Address				
	Director	10% Owner	Officer	Other
MAYER GUY L C/O SPIRE CORPORATION ONE PATRIOTS PARK BEDFORD, MA 01730-2396	Х			
Signatures				
Guy L. Mayer 08	/10/2010			
<u>**</u> Signature of Reporting Person	Date			

Explanation of Responses:

* 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.