SPIRE CORP Form 4 May 18, 2007

FORM 4

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB 3235-0287 Number:

Check this box if no longer subject to Section 16.

January 31, Expires: 2005

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Estimated average burden hours per response... 0.5

Form 4 or Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(City)

1.Title of

(Print or Type Responses)

1. Name and Address of Reporting Person * LITTLE MARK C			2. Issuer Name and Ticker or Trading Symbol SPIRE CORP [SPIR]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last)	(Last) (First) (Middle)		3. Date of Earliest Transaction	(Check all applicable)		
ONE PATRIO	TS PARK		(Month/Day/Year) 05/17/2007	_X_ Director 10% Owner _X_ Officer (give title Other (specify below) CEO, Spire Biomedical		
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line)		
BEDFORD, MA 01730-2396			· · · · · · · · · · · · · · · · · · ·	_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

DEDITORD, MA	01730-2390	

2. Transaction Date 2A. Deemed

(Zip)

(State)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							
	3.	4. Securities	5. Amount of	6. Ownership	7. Nature of		
ate, if	Code	onAcquired (A) or Disposed of (D)	Securities Beneficially	Form: Direct	Indirect Beneficial		
Year)	(Instr. 8)	(Instr. 3, 4 and 5)	Owned Following	(D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)		
	Code V	(A) or Amount (D) Price	Reported Transaction(s) (Instr. 3 and 4)				

Security (Instr. 3)	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Code (Instr. 8)	Disposed (Instr. 3,	(A) or	Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect Beneficial Ownership (Instr. 4)
Common Stock, \$0.01 par value			Code V	Amount	(D) Price	92,620	D	
Common Stock, \$0.01 par value						2,950	I	Held by Spouse
Common Stock, \$0.01 par value						1,564	I	By 401(k) Plan

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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		4.	5. Number	6. Date Exercisab	le and	7. Title and	
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	Expiration Date (Month/Day/Year	·)	Underlying S (Instr. 3 and	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amoun or Number of Shares
Employee Incentive Stock Option (right to buy)	\$ 9.6	05/17/2007		A	5,000	05/17/2008(1)	05/17/2017	Common Stock	5,000

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Oth	

ther

LITTLE MARK C

ONE PATRIOTS PARK X CEO, Spire Biomedical

BEDFORD, MA 01730-2396

Signatures

Mark C. Little 05/18/2007 **Signature of Date Reporting Person

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).
- The option is exercisable in annual increments of 25% of the option shares, with the first quarter increment becoming exercisable on the date in this column.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Reporting Owners 2

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