

SPIRE CORP
Form DEF 14A
April 09, 2009

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 14A

(RULE 14a-101)

SCHEDULE 14A INFORMATION

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

Preliminary Proxy Statement

Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))

Definitive Proxy Statement

Definitive Additional Materials

Soliciting Material Pursuant to §240.14a-12

SPIRE CORPORATION

(Name of Registrant as Specified In Its Charter)

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(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

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.. Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:

Spire Corporation

One Patriots Park

Bedford, Massachusetts 01730-2396

**NOTICE OF SPECIAL MEETING IN LIEU OF
2009 ANNUAL MEETING OF STOCKHOLDERS**

Notice is hereby given that the Special Meeting in Lieu of 2009 Annual Meeting of Stockholders (Meeting) of Spire Corporation (Company) will be held at Spire Corporation, One Patriots Park, Bedford, Massachusetts, on Thursday, May 21, 2009, at 10:00 a.m., to consider and act upon the following:

1. To fix the number of directors at eight and to elect seven directors to serve for one year, leaving one vacancy; and

2. To transact such other business as may properly come before the Meeting.

Stockholders owning Company shares at the close of business on March 27, 2009, are entitled to receive notice of and to vote at the Meeting.

All stockholders are cordially invited to attend the Meeting.

By Order of the Board of Directors,

/s/ Michael W. O Dougherty
Michael W. O Dougherty
Secretary

Bedford, Massachusetts

April 9, 2009

IMPORTANT NOTICE REGARDING THE AVAILABILITY OF PROXY MATERIALS FOR THE MEETING OF STOCKHOLDERS TO BE HELD ON MAY 21, 2009:

**THE PROXY STATEMENT AND 2008 ANNUAL REPORT TO STOCKHOLDERS ARE AVAILABLE AT
WWW.SPIRECORP.COM**

WHETHER OR NOT YOU PLAN TO ATTEND THE MEETING AND IN ORDER TO ASSURE THAT YOUR SHARES ARE REPRESENTED AT THE MEETING, PLEASE SIGN AND RETURN THE ENCLOSED PROXY CARD AS PROMPTLY AS POSSIBLE IN THE ENCLOSED POSTAGE-PREPAID ENVELOPE.

Spire Corporation

One Patriots Park

Bedford, Massachusetts 01730-2396

PROXY STATEMENT

Special Meeting in Lieu of

2009 Annual Meeting of Stockholders

May 21, 2009

The Board of Directors of Spire Corporation is soliciting proxies for the Special Meeting in Lieu of 2009 Annual Meeting of Stockholders (Meeting). This Proxy Statement contains important information for you to consider when deciding how to vote on the matters brought before the Meeting. The Meeting will be held on Thursday, May 21, 2009. This Proxy Statement, proxy card and the 2008 Annual Report and Form 10-K are being mailed to the stockholders on or about April 9, 2009.

PROPOSAL NUMBER ONE

ELECTION OF DIRECTORS

Spire Corporation's By-Laws provide for a minimum of three directors with the exact number to be voted on by the stockholders at the Meeting. The Board of Directors has recommended for this Meeting that the number of directors be fixed at eight and has nominated seven persons for election as directors as noted below, leaving one vacancy. Each director will hold office until the next Annual Meeting of Stockholders (or Special Meeting in Lieu of Annual Meeting of Stockholders) and until his successor is duly elected by the stockholders. For information regarding the independence of the Company's directors, see Meetings and Committees of the Board below.

Unless otherwise instructed, the persons named in the proxy will vote to fix the number of directors at eight and to elect the seven nominees named below as directors, leaving one vacancy. Although the Board does not contemplate that any of the nominees will be unavailable to serve as a director, should any unexpected vacancies occur, the enclosed proxy will be voted for such substituted nominees, if any, as may be designated by the Board. In no event will the proxy be voted for more than seven directors.

All of the nominees are currently directors. Set forth below is information about each nominee:

Name	Age	Position with Company	Director Since
Udo Henseler	69	Director and Chairman, Audit Committee	1992
David R. Lipinski	57	Director and Member, Compensation Committee	2001
Mark C. Little	47	Director and Chief Executive Officer, Spire Biomedical	2004
Roger G. Little	68	Chairman of the Board, Chief Executive Officer and President	1969
Michael J. Magliochetti	45	Director and Member, Audit Committee	2002
Guy L. Mayer	57	Director and Chairman, Compensation Committee and	
		Member, Audit Committee	2001
Roger W. Redmond	55	Director and Member, Compensation Committee	1991

Udo Henseler, Ph.D., is currently the President and principal/owner of Management Services International (MSI), a private business initiated in 1994. MSI provides business development services for biotechnology and life sciences firms at various stages of their corporate evolution. From 2002 to 2005, Dr. Henseler was the Chief Executive Officer and Chairman of eGene, Inc., a publicly traded biotechnology company, and further served as a Director in 2006. Dr. Henseler has over forty years' combined global public and private company financial and operations leadership experience mainly in the biopharmaceutical and life sciences sectors, including positions as Director, Board Chairman, Chief Executive Officer, Chief Financial Officer, Executive Vice President, and memberships and Chairman of various Board committees. Dr. Henseler earned a B.A. in Germany, an MBA from Fairleigh Dickinson University in New Jersey, and Master's and Ph.D. degrees from the Claremont Graduate University in Claremont, California. Dr. Henseler is also a Certified Public and Certified Management Accountant. He currently serves as Director of RTI Biologics, Inc. (formerly Regeneration Technologies, Inc.). Prior to it being acquired by RTI Biologics, Inc. in February 2008, Dr. Henseler

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served as a Director and Chairman of the Audit Committee of Tutogen Medical, Inc.

David R. Lipinski is currently a consulting engineer with WorleyParsons Limited, a provider of professional services to the energy, resource and complex industries. Since 2002, he has been an independent consultant in management and finance. From September 2004 to October 2005, he was Assistant Vice President, Business Development Group of Fifth Third Bank. Previously from August 2003 to May 2004, Mr. Lipinski was Vice President of Corporate Development of Spire Corporation and from August 2003 until November 2003, he was Chief Financial Officer. From 2000 to 2002, he was the Vice President for Corporate Development of Stratos Lightwave, Inc., a manufacturer of optoelectronic components and interconnection products used in optical communications and data networking. Mr. Lipinski is a director of Optelecom-NKF, Inc., a manufacturer of voice, video and data communications modules. He is a registered Professional Engineer and a Chartered Financial Analyst. He holds a B.S. in Physics from the United States Naval Academy and an M.B.A. from the University of New Haven. Mr. Lipinski is a retired Captain of the United States Naval Reserve.

Mark C. Little joined the Company in 1994 as a Medical Device Engineer. He was named Assistant General Manager, Biomedical, in March 1999; General Manager, Spire Biomedical, in January 2000; Vice President and General Manager, Spire Biomedical in November 2000; and Chief Executive Officer, Spire Biomedical in June 2001. He holds a B.A. from Flagler College. Mr. Mark C. Little is the son of Mr. Roger G. Little.

Roger G. Little was the founder of Spire Corporation in 1969, and has been Chairman of the Board of Directors, Chief Executive Officer and President of the Company. He has served on many committees and advisory boards related to small business innovative research, the transfer and commercialization of technology, the worldwide growth of the photovoltaics industry, and the development of sound renewable energy policies. Mr. Little holds a B.A. in Physics from Colgate University and a M.S. in Physics from the Massachusetts Institute of Technology. Mr. Roger G. Little is the father of Mark C. Little.

Michael J. Magliochetti, Ph.D., is currently President, CEO and Director of Claros Diagnostics, Inc., a point-of-care diagnostic technology firm. During 2006 he was Entrepreneur-in-Residence with Oxford Bioscience Partners LP, a leading life science venture capital firm, which he joined after the acquisition of Rehab Medical Holdings, Inc., a company focused in orthopedics, where he served as CEO and Director since 2003. Previously, he was President, CEO and Director of Hema Metrics Corporation, a blood monitoring/dialysis technology company. Dr. Magliochetti was previously President, CEO and Director of UroSurge Corporation, a company specializing in products for the urology market. He has held senior positions with Haemonetics Corporation, Delta Surprenant, and an assignment with the U.S. Army Research Command. He has served as an Adjunct Professor of Biomedical Engineering at the University of Iowa. Dr. Magliochetti holds B.S. and Ph.D. degrees in Chemical Engineering from Northeastern University and the University of Massachusetts at Amherst, respectively, and a High Technology M.B.A. from Northeastern University.

Guy L. Mayer retired February 28, 2009 as President of RTI Biologics, Inc. (formerly Regeneration Technologies, Inc.), a leader in the preparation of human donated tissue and bovine tissue for transplantation with a commitment to advancing science, safety and innovation. Prior to assuming this role in February 2008, Mr. Mayer was Chief Executive Officer and Director of Tutogen Medical, Inc., a leading manufacturer of sterile biological implant products made from human (allograft) and animal (xenograft) tissue, until it was acquired by RTI Biologics, Inc. in February 2008. From 2001 to November 2004, Mr. Mayer served as Chairman and CEO of VisEn Medical, Inc., a private biotechnology company focused on molecular imaging technologies. Prior to VisEn, he was from 1998 to 2001 President and CEO of ETEX Corporation, a private biomedical company based in Cambridge, Massachusetts and from 1984 to 1998, he was with Zimmer Inc., a leader in orthopedic implants where he last served as president Global Products Group. Mr. Mayer is a 1974 Graduate of the University of Ottawa, and currently serves on the Board of Directors of RTI Biologics, Inc.

Roger W. Redmond is currently Vice President and Sr. Investment Manager for Wells Fargo & Company, a financial services firm. From July 2004 to July 2006, Mr. Redmond was a Partner, Chief Investment Officer of Stillwater Investment Management, LLC, an independent, registered investment advisory firm. Previously from January 2002 to July 2004, Mr. Redmond was Senior Vice President of Windsor Financial Group, LLC, an investment advisor firm. From June 1999 to December 2001, Mr. Redmond was a managing director of Goldsmith, Agio, Helms and Company, a private investment banking firm specializing in representing sellers of private, public and closely-held companies. He was designated a Chartered Financial Analyst in 1988. Mr. Redmond holds a B.S. in Chemistry from the University of Arizona and an M.B.A. in Finance from the University of Minnesota.

The Board of Directors recommends a vote FOR fixing the number of directors at eight and for electing the seven nominees listed above, leaving one vacancy.

MEETINGS AND COMMITTEES OF THE BOARD
The Board of Directors

The Board of Directors of the Company held five meetings during 2008. Each director then serving attended 75% or more of the aggregate of: (1) the total number of Board meetings; and (2) the total number of meetings of the committee(s) of which he is a member, if any. The Company does not have a written policy on board attendance at annual meetings of stockholders; however it does schedule a board meeting immediately after the annual meeting (or special meeting in lieu thereof) for which members attending receive compensation. In 2008, all Board Members were present during the Special Meeting held in Lieu of the 2008 Annual Meeting of Stockholders. The table below describes the Board's committees.

Committee Name	Members	Number of Meetings in 2008	Principal Functions
Audit	U. Henseler	15	Oversee the Company's auditing, accounting and financial reporting processes.
Committee	M. Magliochetti	5	Appoint, compensate, evaluate and, where appropriate, replace independent accountants.
	G. Mayer		Oversee the Company's compliance with tax, legal and regulatory requirements.
Compensation	D. Lipinski	5	Oversee and evaluate the Company's compensation programs and compensation of its executives.
Committee	G. Mayer	5	Annually determine Chief Executive Officer's base salary and payments under the annual incentive bonus program and long-term deferred compensation plan.
	R. Redmond		Recommend or approve other executive officers' compensation, including annual performance objectives.
			Recommend to the full Board of Directors compensation of Directors.

The Audit Committee

The Board of Directors has determined that all members of the Audit Committee are independent, as independence for the Audit Committee members is defined in the listing standards for the Nasdaq Stock Market. The Company's Board of Directors has determined that Dr. Henseler, Chairman of the Audit Committee, is an audit committee financial expert within the meaning of applicable regulations of the Securities and Exchange Commission (SEC), based on Dr. Henseler's business experience, as described on Page 1 of this Proxy Statement. For further information regarding the Audit Committee, see the Audit Committee Report beginning on Page 12 of this Proxy Statement.

The Nomination Process

The Company does not currently have a standing nominating committee or a charter for the nomination process. The Company does not have a nominating committee because it believes that obtaining opinions and advice from all directors in connection with Board nominations enhances the nomination process. Nominees for directors are recommended for the Board's selection by a majority of the independent directors. The Board of Directors has determined that Drs. Henseler and Magliochetti and Messrs. Lipinski, Mayer and Redmond are independent, as independence is defined in the listing standards for the Nasdaq Stock Market. In March 2005, the Company adopted a Board resolution addressing the nominations process, which provides substantially as follows:

1. A majority of the independent directors (the Majority) shall identify individuals believed to be qualified as candidates to serve on the Board and shall recommend that the Board select the candidates for all directorships to be filled by the Board or by the shareholders at an annual or special meeting. In identifying candidates for membership on the Board, the Majority shall take into account all factors it considers appropriate, which may include strength of character, mature judgment, relevant skills and the extent to which the candidate would fill a present need on the Board.

2. The Majority shall conduct all necessary and appropriate inquiries into the backgrounds and qualifications of possible candidates and, in that connection, shall have sole authority to retain any search firm to be used to assist it in identifying candidates to serve as directors.
3. The Majority shall review and make recommendations, as it deems appropriate, regarding the size and composition of the Board in order to ensure that the Board has the requisite expertise and that its membership consists of persons with sufficiently diverse backgrounds. The Majority is aware that one member of the Board should meet the criteria for an audit committee financial expert as defined by SEC rules, and that a majority of the members of the Board must be comprised of independent directors as defined in the rules of the Nasdaq Stock Market. The Majority also believes it is appropriate for certain members of the Company's management to participate as members of the Board.
4. The Majority will consider candidates for director recommended by stockholders of the Company. There are no differences in the manner in which the Majority evaluates director nominees recommended by stockholders. Stockholders who wish to recommend director candidates should communicate names of such candidates, with relevant information on their qualifications, to the Secretary, at the address on the first page of this Proxy Statement. The Secretary will forward copies of such stockholder recommendations to the independent directors for their consideration.

As indicated above, the independent directors will consider candidates for director recommended by stockholders of the Company. The procedures for submitting stockholder recommendations are explained below under "Stockholder Proposals" beginning on Page 14.

The Compensation Committee

The Compensation Committee of the Board of Directors is composed of three members, all of whom satisfy the independence standards for Compensation Committee members under the rules of the Nasdaq Stock Market, and operates under a written charter. A copy of the Compensation Committee Charter is not available to stockholders on the Company's website. A copy of the current Compensation Committee Charter is attached as *Appendix A* to the Proxy Statement dated April 15, 2008. For 2008, the Committee was composed of Messrs. Mayer, *chairman*, Lipinski and Redmond.

STOCKHOLDER COMMUNICATIONS TO THE BOARD

Stockholders may contact an individual director, the Board as a group, or a specified Board committee or group, including the non-employee directors as a group, by the following means:

Mail: Spire Corporation

One Patriots Park

Bedford, MA 01730-2396

Attn: Board of Directors

Each communication should specify the applicable addressee or addressees to be contacted as well as the general topic of the communication. The Company will initially receive and process communications before forwarding them to the addressee. The Company generally will not forward to the directors a stockholder communication that it determines to be primarily commercial in nature or relates to an improper or irrelevant topic, or that requests general information about the Company.

COMPLIANCE WITH SECTION 16(a) OF THE SECURITIES EXCHANGE ACT OF 1934

Section 16(a) of the Securities Exchange Act of 1934 requires the Company's directors and executive officers, and persons who own more than 10% of a registered class of the Company's equity securities, to file with the Securities and Exchange Commission reports of ownership and changes in ownership of common stock and other equity securities of the Company. Officers, directors and greater than 10% shareholders are required by SEC regulations to furnish the Company with copies of all Section 16(a) forms they file.

Based solely on review of the copies of such reports furnished to the Company or written or oral representations that no other reports were required, the Company believes that during 2008, all filing requirements applicable to its officers, directors and greater than 10% beneficial owners were complied with.

OWNERSHIP OF SECURITIES

The following table below shows how the Company's common stock is owned by the Company's directors and the executive officers named in the Summary Compensation Table under "Compensation of Officers and Directors" and by owners of more than 5% of the Company's outstanding common stock as of March 2, 2009. Each person or entity, except Federated Investors, Inc., Invesco Ltd. and Leviticus Partners, L.P., maintains a mailing address c/o Spire Corporation, One Patriots Park, Bedford, Massachusetts 01730-2396.

Security Ownership of Certain Beneficial Owners and Management

Name and Address of Beneficial Owner	Amount and Nature of Beneficial Ownership (1) (2)	Percent of Common Stock (3)
Udo Henseler (4)	18,374	*
Rodger W. LaFavre (5)	43,500	*
David R. Lipinski (6)	25,202	*
Mark C. Little (7)	151,885	1.8%
Roger G. Little (8)	2,138,205	25.7%
Michael J. Magliochetti (9)	20,876	*
Guy L. Mayer (10)	24,002	*
Roger W. Redmond (11)	30,730	*
Federated Investors, Inc. Federated Investors Tower Pittsburgh, PA 15222-3779 (12)	696,676	8.4%
Invesco Ltd. 1555 Peachtree Street NE Atlanta, GA 30309 (13)	741,459	8.9%
Leviticus Partners, L.P. The Lincoln Building 60 East 42nd Street, Suite 901 New York, NY 10165 (14)	476,300	5.7%
Directors and officers as a group (10 persons on March 2, 2009 including those named above)	2,496,024	30.0%

* Less than 1%

(1) Includes shares for which the named person:

has sole voting and investment power, or

has shared voting and investment power with his spouse, unless otherwise indicated in the footnotes.

(2) Includes shares that can be acquired through stock option exercises through May 1, 2009.

(3) Based on 8,334,688 shares of common stock outstanding as of March 2, 2009. Shares of common stock which an individual or group has a right to acquire within 60 days are deemed to be outstanding for purposes of computing the percentage ownership of such individual or group, but are not deemed to be outstanding for purposes of computing the percentage ownership of any other person shown on the table.

(4) Includes 18,374 shares that can be acquired through stock option exercises through May 1, 2009.

(5) Includes 43,500 shares that can be acquired through stock option exercises through May 1, 2009. Amount does not include 427 unutilized shares indirectly held by the Spire Corporation 401(k) Profit Sharing Plan.

(6) Includes 24,002 shares that can be acquired through stock option exercises through May 1, 2009.

- (7) Includes 50,500 shares that can be acquired through stock option exercises through May 1, 2009. Also includes 6,415 shares that are held by spouse, with respect to which Mr. Mark Little disclaims beneficial ownership, and 5,390 shares held by Mr. Mark Little as custodian for his minor son. Amount does not include 8,365 unitized shares indirectly held by the Spire Corporation 401(k) Profit Sharing Plan.
- (8) Includes 2,109,305 shares of common stock held in a Trust of which Mr. Roger G. Little is the primary beneficiary. Amount does not include 20,039 unitized shares indirectly held by the Spire Corporation 401(k) Profit Sharing Plan.
- (9) Includes 20,876 shares that can be acquired through stock option exercises through May 1, 2009.
- (10) Includes 24,002 shares that can be acquired through stock option exercises through May 1, 2009.
- (11) Includes 24,002 shares that can be acquired through stock option exercises through May 1, 2009.
- (12) All information relating to beneficial ownership of common stock was obtained from the Schedule 13G/A, Amendment No. 3, filed on February 17, 2009 with the SEC, jointly filed by Federated Investors, Inc., Voting Shares Irrevocable Trust, John F. Donahue, Rhodora J. Donahue and J. Christopher Donohue. Federated Investors, Inc. (the Parent), the parent holding company of Federated Equity Management Company of Pennsylvania and Federated Global Investment Management Corp., which acts as investment advisers to registered investment companies and separate accounts that own shares of common stock in Spire Corporation. The investment advisers are wholly owned subsidiaries of FII Holdings, Inc., which is wholly owned subsidiary of Federated Investors, Inc. All of the Parent's outstanding voting stock is held in the Voting Shares Irrevocable Trust (the Trust) for which J. Christopher Donahue, John F. Donahue and Rhodora J. Donahue act as trustees (collectively, the Trustees). The Trustees have joined in filing because of the collective voting control that they exercise over the Parent. In accordance with Rule 13d-4 under the Securities Act of 1934, as amended, the Parent, the Trust, and each of the Trustees declare that the Schedule 13G/A statement should not be construed as an admission that they are the beneficial owners of the reported securities, and the Parent, the Trust, and each of the Trustees expressly disclaim beneficial ownership of the reported securities. These shares were purchased for investment purposes.
- (13) All information relating to beneficial ownership of common stock was obtained from the Schedule 13G filed on February 12, 2009 with the SEC, jointly filed by Invesco Ltd., a Bermuda Company (Invesco), on behalf of itself and its subsidiary, Invesco PowerShares Capital Management LLC. Invesco through its subsidiaries provides investment management services to institutional and individual investors worldwide. Invesco and its subsidiaries disclaim beneficial ownership of shares beneficially owned by any of their executive officers and directors. Each of Invesco's direct and indirect subsidiaries also disclaim beneficial ownership of shares beneficially owned by Invesco and any other subsidiary. These shares were purchased for investment purposes.
- (14) All information relating to beneficial ownership of common stock was obtained from the Schedule 13G/A, Amendment No. 1, filed on January 5, 2009 with the SEC, jointly filed by Leviticus Partners, L.P., a Delaware limited partnership, and AMH Equity, LLC, a New York limited liability company. AMH Equity, LLC is the general partner of Leviticus Partners, L.P. These shares were purchased for investment purposes.

EXECUTIVE OFFICERS

The following table provides information on the executive officers of the Company. All the executive officers have been elected to serve until the Board meeting following the next annual meeting of stockholders (or Special Meeting in Lieu thereof) and until their successors have been elected and qualified.

Name	Age	Position
Christian Dufresne	45	Chief Financial Officer and Treasurer
Stephen J. Hogan	57	Executive Vice President and General Manager, Spire Solar
Rodger W. LaFavre	59	Chief Operating Officer
Mark C. Little	47	Chief Executive Officer, Spire Biomedical
Roger G. Little	68	Chairman of the Board, Chief Executive Officer and President

Christian Dufresne, Ph.D. joined the Company in 2000 as Assistant to the Chief Executive Officer and President. He was named Chief Financial Officer of Spire Biomedical in June 2002, Vice President, Corporate Planning in 2005 and appointed Chief Financial Officer and Treasurer in May 2006. Prior to joining Spire, Dr. Dufresne was a consultant for Stratford Associates, a market research firm that performs economic market modeling for Fortune 500 companies.

Stephen J. Hogan joined the Company in 1984 as Manager, Process Development. He was named Sales Manager, Photovoltaic Equipment, in 1988; Manager of Engineering and Manufacturing in 1990; Director of Photovoltaic Business Development in March 1997; Vice President and General Manager, Photovoltaics, in November 1997; and Executive Vice President and General Manager, Spire Solar in November 2000.

Rodger W. LaFavre joined the Company in 2000 as Vice President, Utility Marketing of Spire Solar Operations. He was named Vice President and Chief Financial Officer of Spire Solar in June 2002, and Chief Operating Officer of Spire Solar in November 2002 and Chief Operating Officer of Spire Corporation in February 2005. Prior to joining Spire, Mr. LaFavre was Vice President of Stone & Webster Engineering Corporation, a worldwide engineering and construction company, where he was responsible for business development, corporate planning and the Asia subsidiary.

Mark C. Little is Chief Executive Officer, Spire Biomedical. His business experience is summarized on Page 2.

Roger G. Little has an ongoing five-year employment contract with the Company effective as of January 1, 2002. See Compensation of Officers and Directors Employment Contracts, Termination of Employment and Change-in-Control Arrangements. His business experience is summarized on Page 2.

CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS

Related Party Transactions

The Company subleased 77,000 square-feet in a building leased by Mykrolis Corporation, who in turn leased the building from SPI-Trust, a Trust of which Mr. Roger G. Little, Chairman of the Board, Chief Executive Officer and President of the Company, is the sole trustee and principal beneficiary. The 1985 sublease originally was for a period of ten years, was extended for a five-year period expiring on November 30, 2000 and was further extended for a five-year period expiring on November 30, 2005. The sublease agreement provided for minimum rental payments plus annual increases linked to the consumer price index. Effective December 1, 2005, the Company entered into a two-year Extension of Lease Agreement (the Lease Extension) directly with SPI-Trust.

The Company assumed certain responsibilities of Mykrolis, the tenant under the former lease, as a result of the Lease Extension including payment of all building and real estate related expenses associated with the ongoing operations of the property. The Company will allocate a portion of these expenses to SPI-Trust based on pre-established formulas utilizing square footage and actual usage where applicable. These allocated expenses will be invoiced monthly and be paid utilizing a SPI-Trust escrow account of which the Company has sole withdrawal authority. SPI-Trust is required to maintain three (3) months of its anticipated operating costs within this escrow account. On December 1, 2006, the Company and SPI-Trust amended the Lease Extension to include the lease of an additional 15,000 square feet from SPI-Trust for a one-year term.

On November 30, 2007, the Company entered into a new Lease Agreement (the New Lease) with SPI-Trust with respect to 144,230 square feet of space comprising the entire building in which the Company has occupied since December 1, 1985. The term of the New Lease commenced on December 1, 2007 and continues for five (5) years until November 30, 2012. The Company has the right to extend the term of the New Lease for an additional five (5) year period. The annual rental rate for the first year of the New Lease is \$12.50 per square foot on a triple net basis, whereby the tenant is responsible for operating expenses, taxes and maintenance of the building. The annual rental rate increases on each anniversary by \$0.75 per square foot. If the Company exercises its right to extend the term of the New Lease, the annual rental rate for the first year of the extended term will be the greater of: (a) the rental rate in effect immediately preceding the commencement of the extended term; or (b) the market rate at such time, and on each anniversary of the commencement of the extended term the rental rate will increase by \$0.75 per square foot. The Company believes that the terms of the New Lease are commercially reasonable. Rent expense under the New Lease and the Lease Extension, as amended, for the year ended December 31, 2008 was \$2,019,000.

In conjunction with the May 2003 acquisition of Spire Semiconductor, LLC by the Company, SPI-Trust purchased from Stratos Lightwave, Inc. (Spire Semiconductor's former owner) the building that Spire Semiconductor occupies in Hudson, New Hampshire for \$3.7 million. Subsequently, the Company entered into a lease for the building (90,000 square feet) with SPI-Trust whereby the Company agreed to pay \$4.1 million to SPI-Trust over an initial five-year term expiring in May 2008 with a Company option to extend for five years. In addition to the rent payments, the lease obligated the Company to keep on deposit with SPI-Trust the equivalent of three months rent. Interest costs were assumed at 7%. For the year ended December 31, 2008, interest expense was approximately \$8,400.

Upon the expiration of the lease in May 2008, the Company did not exercise its option to extend the lease for an additional five (5) years. On May 20, 2008, the Company agreed with SPI-Trust to continue the current lease, under the current terms and conditions on a month-to-month basis for a maximum of three (3) months beyond the current term.

On August 29, 2008, the Company entered into a new Lease Agreement (the Hudson Lease) with SPI-Trust, with respect to 90,000 square feet of space comprising the entire building in which Spire Semiconductor has occupied space since June 1, 2003. The term of the Hudson Lease commenced on September 1, 2008, and continues for seven (7) years until August 31, 2015. The Company has the right to extend the term of the Hudson Lease for an additional five (5) year period. The annual rental rate for the first year of the Hudson Lease is \$12.50 per square foot on a triple-net basis, whereby the tenant is responsible for operating expenses, taxes and maintenance of the building. The annual rental rate increases on each anniversary by \$0.75 per square foot. If the Company exercises its right to extend the term of the Hudson Lease, the annual rental rate for the first year of the extended term will be the greater of: (a) the rental rate in effect immediately preceding the commencement of the extended term; or (b) the market rate at such time, and on each anniversary of the commencement of the extended term the rental rate will increase by \$0.75 per square foot. In addition, the Company was required to deposit with SPI-Trust \$300,000 as security for performance by the Company for its covenants and obligations under the Hudson Lease. SPI-Trust was responsible, at its sole expense, to make certain defined tenant improvements to the building. The Company believes that the terms of the Hudson Lease are commercially reasonable and reflective of market rates. The lease agreement does not provide for a transfer of ownership at any point. The Hudson Lease is classified as a related party operating lease. Rent expense under the Hudson Lease for the four months ended December 31, 2008 was \$443,000. The prior lease was classified as a related party capital lease and for such space; rent expense for the period of January 1, 2008 through August 31, 2008 was \$810,000.

Edward D. Gagnon, General Manager of the Company's subsidiary, Spire Semiconductor, LLC, is a son-in-law of Roger G. Little, Chairman of the Board, Chief Executive Officer and President of the Company. For the year ended December 31, 2008, Mr. Gagnon received salary and bonus of \$183,136.

COMPENSATION OF OFFICERS AND DIRECTORS

The following table describes the compensation awarded to the Chief Executive Officer and the Company's two most highly compensated executive officers of the Company (other than the CEO) who were serving as executive officers on December 31, 2008 (the named executive officers):

Summary Compensation Table

Name & Principal Position	Year	Salary \$(1)	Bonus (\$)	Option Awards \$(2)	Annual Compensation			Total (\$)
					Non-Equity Incentive Plan Compensation (\$)(3)	Non-Qualified Deferred Compensation Earnings (\$)	All Other Compensation \$(4)	
Roger G. Little Chairman of the Board, CEO & President	2008	\$ 500,000	\$ 11,100		\$ 66,406		\$ 7,620	\$ 585,126
	2007	\$ 493,000	\$ 4,700		\$ 24,300		\$ 7,620	\$ 529,620
Rodger W. LaFavre Chief Operating Officer	2008	\$ 185,000	\$ 35,000				\$ 2,580	\$ 222,580
	2007	\$ 175,000	\$ 13,000	\$ 26,627			\$ 2,680	\$ 217,307
Mark C. Little CEO, Spire Biomedical	2008	\$ 160,000	\$ 25,000				\$ 12,283	\$ 197,283
	2007	\$ 155,000	\$ 8,000	\$ 22,931			\$ 12,283	\$ 198,214

- (1) For Mr. Roger G. Little, salary includes payment of \$250,000 under a non-qualified deferred compensation plan paid on behalf of Mr. Little for 2007 and 2008. See Non-Qualified Deferred Compensation Plan below.
- (2) The amounts in this column reflect the dollar amount recognized for financial statement reporting purposes for the applicable fiscal year in accordance with FAS 123(R) and thus may include amounts from awards granted in and prior to such fiscal year. Assumptions used in the calculation of these amounts are included in Note 8 in the notes to the Company's audited consolidated financial statements for the fiscal year ended December 31, 2008 included in the Company's Annual Report on Form 10-K filed with the SEC on March 31, 2009.
- (3) In 2009, Mr. Roger G. Little received a bonus of \$66,406 as a percentage of his annual incentive bonus program for the year ended December 31, 2008. In 2008, Mr. Roger G. Little received a bonus of \$24,300 as a percentage of his annual incentive bonus program for the year ended December 31, 2007.
- (4) Includes compensation for premiums paid by the Company on term life insurance policies provided to all executive officers. Mr. Mark C. Little's other compensation also included \$11,383 of compensation from personal use of a company vehicle in each of the years ended December 31, 2008 and 2007.

Non-Qualified Deferred Compensation Plan

Effective January 1, 2002, the Company adopted the Spire Corporation Non-Qualified Deferred Compensation Plan (the "Deferred Compensation Plan") for Mr. Roger G. Little, Chairman of the Board, Chief Executive Officer and President of the Company. Under the Deferred Compensation Plan, the Company makes equal monthly contributions to the Spire Corporation Non-Qualified Deferred Compensation Trust (the "Trust") up to the annually required amount of \$250,000. The Company records these contributions as selling, general and administrative expense when made. The Trustee makes all investment decisions for the Trust on behalf of Mr. Little. The Company has not guaranteed a return on investment for Mr. Little. All earnings and losses on the Deferred Compensation Plan assets are borne by Mr. Little. All contributions and earnings are fully vested to Mr. Little when made but are subject to the Company's creditors in the event of bankruptcy. The Company makes contributions only if it has available cash to meet its operational needs as determined by the Compensation Committee. If the Compensation Committee determines that there is not enough available cash then it may defer funding for a particular plan year only until cash becomes available. As of December 31, 2008, the Company has fully funded its obligations as called for by Mr. Little's employment agreement.

Employment Contracts, Termination of Employment and Change-in-Control Arrangements

The Company has an employment agreement with Roger G. Little, Chairman of the Board, Chief Executive Officer and President. For 2008, he received the following pursuant to the agreement: a base salary of \$250,000, payment under an annual incentive bonus program of up to 50% of base salary (depending on attainment of specified performance goals as set by the Compensation Committee), which amounted to \$66,406, and payment under the Deferred Compensation Plan in the amount of \$250,000. For subsequent years, base salary will be no less than \$205,000; and payments under the annual incentive bonus program and the Deferred Compensation Plan will be determined annually. The agreement also provides for a Company vehicle for Mr. Little and for life insurance for which he may designate a beneficiary in the face amount of \$500,000. Further, the agreement provides for the payment of 12 months' base salary in the event he is terminated without cause or if he terminates the agreement for good reason. The agreement also precludes Mr. Little from competing with the Company during his employment and for a period of one year thereafter, and from disclosing confidential information. The agreement also entitles Mr. Little to paid vacations in accordance with the regular policy of the Company for the executive officers.

If Mr. Little's employment is terminated by the Company without cause or by Mr. Little for good reason within six months prior to a change-of-control or within one year thereafter, then in lieu of payment of 12 months' base salary, the Company shall pay Mr. Little in 24 monthly installments a cash severance amount equal to three times his average annual compensation, including base salary and bonuses.

The agreement was originally executed on January 1, 2002 and had a five-year term. On each anniversary of the agreement, the agreement is automatically extended for an additional five-year term unless the parties have renegotiated the agreement or one of the parties has given the other party notice of non-renewal.

Stock Options

During 2008, there were no stock options granted to or exercised by the named executive officers.

The following table provides information about outstanding equity awards held by the named executive officers at the end of fiscal 2008:

Outstanding Equity Awards at Fiscal Year End

Name	Option Awards					Stock Awards			Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights that have not
	Number of Securities Underlying Unexercised Options (#) Exercisable (1)	Number of Securities Underlying Unexercised Options (#) Unexercisable (1)	Equity Incentive Plan Awards: Number of Securities Underlying Unexercised Options (#)	Option Exercise Price (\$)	Option Expiration Date (2)	Number of Shares or Units of Stock that have not Vested (#)	Market Value of Shares or Units of Stock that have not Vested (\$)	Equity Incentive Plan Awards: Number of Unearned Shares, Units or Other Rights that have not Vested (#)	Equity Incentive Plan Awards: Market or Payout Value of Unearned Shares, Units or Other Rights that have not Vested (\$)
Roger G. Little									
Rodger W. LaFavre	17,000			\$ 4.03	11/30/10				
	10,000			\$ 3.90	5/22/12				
	9,000	3,000		\$ 4.33	5/17/15				
	5,000	5,000		\$ 8.32	11/16/16				
	1,250	3,750		\$ 9.60	5/17/17				
	1,250	3,750		\$ 9.15	8/16/17				
Mark C. Little	36,750			\$ 3.90	5/22/12				
	7,500	2,500		\$ 4.33	5/17/15				
	5,000	5,000		\$ 8.32	11/16/16				
	1,250	3,750		\$ 9.60	5/17/17				

(1) Options become exercisable in four equal annual installments beginning on the first anniversary of the date of grant.

(2) The expiration date of each option occurs ten years after the date of grant of such option.

The table below describes the securities authorized for issuance under the Company's equity compensation plans as of December 31, 2008:

Equity Compensation Plan Information

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	Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights	Number of Securities Remaining Available for Future Issuance under Equity Compensations (1) (2)
Equity compensation plans approved by security holders	606,177	\$ 7.52	703,800
Equity compensation plans not approved by security holders			
Total	606,177	\$ 7.52	703,800

(1) Consists of shares that may be granted under the Company's 2007 Stock Equity Plan (the 2007 Plan), the Company's only active equity compensation plan.

- (2) In addition to being available for future issuances upon exercise of options that may be granted after December 31, 2008, a maximum of 500,000 shares under the 2007 Plan may instead be issued in the form of restricted stock, deferred stock, performance awards or other stock-based awards.

Directors Compensation

Spire Corporation does not pay its directors who are also officers of the Company any additional compensation for services as directors. In December of 2006, the Compensation Committee engaged Francois Quinson, an independent consultant, to review the compensation paid to the Company's Board of Directors. Based upon Mr. Quinson's recommendations, on March 15, 2007, the Compensation Committee approved the following as elements of compensation for non-employee directors and the Board of Directors passed a resolution approving the compensation package. Accordingly, in 2008, the compensation for non-employee directors included the following:

Cash Board meeting attendance fee of \$1,000 per meeting attended in person and \$500 for each meeting by telephone;

Non-incentive stock options under the 2007 Plan for 2,000 shares for each Board meeting attended either in person or by telephone, with the awards being for one meeting per quarter and four quarterly meeting per year, to a maximum of 8,000 shares per annum. These options vest immediately and are considered a long term incentive;

Cash meeting attendance fee of \$1,000 for each formal meeting of the Audit Committee and of the Compensation Committee attended either in person or by telephone, with the payments subject to an annual maximum of \$5,000 per member of each such committee;

No additional compensation when committee meeting is held in conjunction with a Board meeting;

\$12,000 annual retainer for all directors, payable quarterly;

\$5,000 annual retainer for the Chairman of the Audit Committee, payable quarterly;

\$4,000 annual retainer for the Chairman of the Compensation Committee, payable quarterly;

\$2,000 annual retainer for other members of the Audit and Compensation Committees, payable quarterly; and

Expense reimbursement for all reasonable expenses incurred in attending meetings and tending to Spire business. The following table shows non-employee director compensation in 2008:

Name (1)	Fees Earned or Paid in Cash (\$)	Stock Awards (\$)	Options Awards (\$)(2)	Non-Equity Incentive Plan Compensation Earnings	Non-Qualified Deferred Compensation Earnings	All Other Compensation	Total (\$)
Udo Henseler	\$ 26,500		\$ 63,367				\$ 89,867
David R. Lipinski	\$ 19,500		\$ 63,367				\$ 82,867
Michael J. Magliochetti	\$ 23,500		\$ 63,367				\$ 86,867
Guy L. Mayer	\$ 28,500		\$ 63,367				\$ 91,867
Roger W. Redmond	\$ 19,500		\$ 63,367				\$ 82,867

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- (1) As noted above, Messrs. Roger G. Little and Mark C. Little are not included in this table as they are officers of the Company and, accordingly, receive no compensation for their services as directors. The compensation received by Messrs. Roger G. Little and Mark C. Little as officers of the Company is shown in the Summary Compensation Table above.

- (2) The amounts in this column reflect the dollar amount recognized for financial statement reporting purposes for the fiscal year ended December 31, 2008, in accordance with FAS 123(R) and thus includes amounts from awards granted in and prior to 2008. Assumptions used in the calculation of these amounts are included in Note 8 in the notes to the Company's audited consolidated financial statements for the fiscal year ended December 31, 2008 included in the Company's Annual Report on Form 10-K filed with the SEC on March 31, 2009. As of December 31, 2008, each non-employee director had the following number of options outstanding: Udo Henseler: 20,872; David R. Lipinski: 26,500; Michael J. Magliochetti: 23,374; Guy L. Mayer: 26,500; and Roger W. Redmond: 26,500.

AUDIT COMMITTEE REPORT

This Audit Committee Report shall not be deemed to be soliciting material or to be filed with the Securities and Exchange Commission or subject to Regulation 14A or 14C under the Exchange Act, or to the liabilities of Section 18 of the Exchange Act. Notwithstanding anything to the contrary set forth in any of the Company's previous filings under the Securities Act of 1933 or the Exchange Act that might incorporate future filings, including this Proxy Statement, in whole or in part, this report shall not be incorporated by reference into any such filings.

Composition and Charter

The Audit Committee of the Board of Directors is currently composed of three directors, all of whom satisfy the independence standards for Audit Committee members under the rules of the Nasdaq Stock Market, and operates under a written charter. A copy of the Audit Committee Charter is not available to stockholders on the Company's website. A copy of the current Audit Committee Charter is attached as *Appendix B* to the Proxy Statement dated April 15, 2008. For 2008, the Committee was composed of Dr. Henseler, *chairman*, Dr. Magliochetti and Mr. Mayer.

Responsibilities

The responsibilities of the Audit Committee include engaging an accounting firm to serve as Spire's independent registered public accounting firm. Management is responsible for Spire's internal controls and financial reporting process. The independent registered public accounting firm is responsible for performing an independent audit of Spire's consolidated financial statements in accordance with the standards of the Public Company Accounting Oversight Board (PCAOB) and for issuing an opinion thereon. The Audit Committee's responsibility is to oversee these processes and Spire's internal controls. The Audit Committee does not prepare or audit the Company's financial statements or certify their accuracy.

Review with Management and Independent Registered Public Accountants

In this context, the Audit Committee has met and held discussions with management and the independent registered public accounting firm. Management represented to the Audit Committee that Spire's consolidated financial statements were prepared in accordance with generally accepted accounting principles, and the Audit Committee has reviewed and discussed the audited consolidated financial statements with management and the independent registered public accounting firm. The Audit Committee has discussed with the independent registered public accounting firm the matters required to be discussed by the statement on Auditing Standards No. 61, as amended, as adopted by the PCAOB in Rule 3200T.

Spire's independent registered public accounting firm also provided to the Audit Committee the written disclosures and the letter required by applicable requirements of the PCAOB regarding the independent registered public accounting firm's communications with the Audit Committee concerning independence, and the Audit Committee discussed with the independent registered public accounting firm, Vitale, Caturano & Company, P.C., the firm's independence.

Summary

Based upon the Audit Committee's discussions with management and the independent registered public accounting firm and the Audit Committee's review of Spire's audited consolidated financial statements and the representations of management, and the report of the independent registered public accounting firm to the Audit Committee, the Audit Committee recommended that the Board of Directors include the audited consolidated financial statements in Spire's Annual Report on Form 10-K for the year ended December 31, 2008, as filed with the SEC.

This report is submitted by the Audit Committee.

Udo Henseler, *Chairman*

Michael J. Magliochetti

Guy L. Mayer

DISCLOSURE OF PRINCIPAL ACCOUNTANT FEES AND SERVICES

The following table presents aggregate fees billed to the Company for professional services rendered by Vitale, Caturano & Company, P.C. for each of the last two fiscal years.

	2008 Fees	2007 Fees
Audit Fees	\$ 426,000	\$ 308,200
Audit-Related Fees		20,500
Tax Fees	30,000	26,500
 Total Fees	 \$ 456,000	 \$ 355,200

Audit Fees were for professional services rendered for the audit of the Company’s annual consolidated financial statements and review of consolidated financial statements included in the Company’s Quarterly Reports on Form 10-Q and services that are normally provided by the independent registered public accounting firm in connection with statutory and regulatory filings or engagements.

Audit-Related Fees were for assurance and related services that are reasonably related to the performance of the audit or review of the Company’s financial statements and are not reported under Audit Fees.

Tax Fees were for professional services rendered for federal, state and international tax compliance, tax advice and tax planning.

Policy on Audit Committee Pre-Approval of Audit and Permissible Non-Audit Services of Independent Auditors

The Audit Committee pre-approves all audit and permissible non-audit services provided by the independent registered public accounting firm. These services may include audit services, audit-related services, tax services and other services. Pre-approval is generally provided for up to one year, and any pre-approval is detailed as to the particular service or category of services and is generally subject to a specific budget. The independent registered public accounting firm and management are required to periodically report to the Audit Committee regarding the extent of services provided by the independent registered public accounting firm in accordance with the pre-approval, and the fees for the services performed to date. The Audit Committee may also pre-approve particular services on a case-by-case basis.

INDEPENDENT REGISTERED PUBLIC ACCOUNTANTS

The Audit Committee of the Board of Directors of Spire Corporation has engaged Vitale, Caturano & Company, P.C. as the Company’s independent registered public accountants for the current fiscal year. They have served as accountants for the Company since January 7, 2004.

As the Company’s independent registered public accountants, Vitale, Caturano & Company, P.C. was engaged to conduct quarterly reviews of the Company; to conduct an audit of the consolidated financial statements of the Company for the full year 2008; and to prepare the federal and state tax returns of the Company for the year ended December 31, 2008. Representatives of Vitale, Caturano & Company, P.C. are expected to attend the Meeting in order to respond to questions from stockholders and will have the opportunity to make a statement.

PROXIES AND VOTING AT THE MEETING

Each signed and returned proxy will be voted in accordance with any instructions of the stockholder(s) executing the proxy. A proxy signed without instructions will be voted in accordance with the Board's recommendations. If a stockholder attends the Meeting and votes in person, his or her proxy will not be counted. A signed proxy may be revoked at any time before it is exercised, either in person or by giving written notice of revocation to the Secretary of the Company at the address on the first page of this Proxy Statement.

Each share of common stock is entitled to one vote on all matters submitted to the stockholders for approval. No vote may be taken unless a quorum (*i.e.*, a majority of the common stock issued, outstanding, and entitled to vote) is present at the Meeting in person or by proxy. The seven nominees for election as directors at the Meeting who receive the greatest number of votes properly cast for the election of directors shall be elected the directors of the Company. The approval of any other matter as may properly come before the meeting requires the affirmative vote of a majority in interest of the stock represented and entitled to vote at the meeting. Broker non-votes are counted for purposes of determining the presence of a quorum, but are not counted for purposes of determining the result of any vote. Abstentions are counted in determining the presence of a quorum and have the effect of a vote against a proposal.

The Board has fixed March 27, 2009, as the record date for determining the stockholders entitled to vote at the Meeting. On that date there were 8,334,688 shares of common stock issued, outstanding, and entitled to vote.

OTHER MATTERS

The Board knows of no other matters that may come before the Meeting. If any other matters should properly come before the Meeting, it is the intention of the persons named in the accompanying proxy to vote in accordance with their judgment on such matters. Such discretionary authority is conferred by the proxy.

All costs of this solicitation, which is being made principally by mail, but which may be supplemented by telephone or personal contacts by the Company's directors, officers, and employees without additional compensation, will be borne by the Company. Brokers will be requested to forward proxy soliciting material to the beneficial owners of the stock held in such brokers' names, and the Company will reimburse them for their expenses incurred in complying with the Company's request.

In the Company's filings with the SEC, information is sometimes incorporated by reference. This means that the Company is referring you to information that has previously been filed with the SEC, so the information should be considered as part of the filing you are reading. Based on SEC regulations, the Audit Committee Report specifically is not incorporated by reference into any other filings with the SEC.

The Company's policy is to encourage its Board members to attend the Annual Meeting of Stockholders, and all of the members standing for re-election attended the Special Meeting in Lieu of the 2008 Annual Meeting of Stockholders.

STOCKHOLDER PROPOSALS 2010 ANNUAL MEETING

In order to be included in the proxy statement and form of proxy for the 2010 Annual Meeting of Stockholders pursuant to Exchange Act Rule 14a-8, stockholder proposals must be received by the Company at its corporate offices in Bedford, Massachusetts, no later than December 10, 2009 (120 days before the anniversary of the date this Proxy Statement is being mailed to the Company's stockholders). Such proposals must also comply with the requirements as to form and substance established by the SEC if such proposals are to be included in the proxy statement and form of proxy. Stockholder proposals to be presented at the 2010 Annual Meeting, other than stockholder proposals submitted pursuant to Exchange Act Rule 14a-8 for inclusion in the proxy statement and form of proxy for the 2010 Annual Meeting, must be received in writing at the Company's corporate offices no later than February 23, 2010 (45 days before the anniversary of the date this Proxy Statement is being mailed to the Company's stockholders).

Independent directors will consider any director nominees you recommend in writing for the 2010 Annual Meeting if the Secretary receives notice by December 10, 2009, and you are a stockholder of record on the day you provide notice of your recommendation or nomination to the Company and on the record date for determining stockholders entitled to notice of the meeting and to vote.

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Your notice must include the following information for each person you are recommending or nominating for election as a director:

The name, age, business address and residence address of the person;

The principal occupation or employment of the person;

The number of shares of Spire common stock which the person owns beneficially or of record; and

Any other information relating to the person that must be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for election of directors under Section 14 of the Exchange Act and its rules and regulations. In addition, your notice must include the following information about you:

Your name and record address;

The number of shares of Spire common stock that you own beneficially or of record;

A description of all arrangements or understandings between you and each proposed nominee and any other person or persons, including their names, pursuant to which the nomination is to be made;

A representation that you intend to appear in person or by proxy at the meeting to nominate the person or persons named in your notice; and

Any other information about you that must be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for election of directors under Section 14 of the Exchange Act and its rules and regulations. The notice must include written consent by each proposed nominee to being named as a nominee and to serve as a director if elected. No person will be eligible for election as a director of Spire unless recommended by a majority of independent directors and nominated by the Board or nominated in accordance with the procedures set forth above.

By Order of the Board of Directors,

/s/ Michael W. O Dougherty
Michael W. O Dougherty
Secretary

April 9, 2009

SPIRE CORPORATION

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Proxy for Special Meeting in Lieu of 2009 Annual Meeting of Stockholders

May 21, 2009

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS.

The undersigned hereby appoints Roger G. Little and Michael W. O Dougherty, and either one of them, proxies of the undersigned, with power of substitution, to act for and to vote all shares of Spire Corporation common stock owned by the undersigned, upon the matters set forth in the Notice of Meeting and related Proxy Statement at the Special Meeting in Lieu of 2009 Annual Meeting of Stockholders of Spire Corporation, to be held at Spire Corporation, One Patriots Park, Bedford, Massachusetts at 10:00 a.m. on Thursday, May 21, 2009, and any adjournments thereof. The proxies, and either one of them, are further authorized to vote, in their discretion, upon such other business as may properly come before the Meeting, or adjournments thereof.

(Continued and to be signed on reverse side.)

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SPECIAL MEETING IN LIEU OF 2009 ANNUAL MEETING OF STOCKHOLDERS

SPIRE CORPORATION

May 21, 2009

IMPORTANT NOTICE REGARDING THE AVAILABILITY OF PROXY MATERIALS

FOR THE MEETING OF STOCKHOLDERS TO BE HELD ON MAY 21, 2009:

THE PROXY STATEMENT AND 2008 ANNUAL REPORT TO STOCKHOLDERS

ARE AVAILABLE AT WWW.SPIRECORP.COM

Please sign, date and mail

your proxy card in the

envelope provided as soon

as possible.

Please detach along perforated line and mail in the envelope provided.

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YOUR SHARES WILL BE VOTED FOR THE FOLLOWING PROPOSAL UNLESS OTHERWISE INDICATED.

PLEASE SIGN, DATE AND RETURN PROMPTLY IN THE ENCLOSED ENVELOPE. PLEASE MARK YOUR VOTE IN BLUE OR BLACK INK AS SHOWN HERE x

1. ELECTION OF DIRECTORS. To fix the number of directors at eight and to elect seven directors, leaving one vacancy, to serve for one year:

NOMINEES:

.. FOR ALL NOMINEES

Udo Henseler

David R. Lipinski

.. WITHHOLD AUTHORITY

Mark C. Little

FOR ALL NOMINEES

Roger G. Little

Michael J. Magliochetti

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FOR ALL EXCEPT Guy L. Mayer

(See instructions below) Roger W. Redmond

INSTRUCTIONS: To withhold authority to vote for any individual nominee(s), mark **FOR ALL EXCEPT** and fill in the circle next to each nominee you wish to withhold, as shown here: 1

To change the address on your account, please check the box at right and indicate your new address in the address space above. ..
Please note that changes to the registered name(s) on the account may not be submitted via this method.

Signature of Stockholder

Date:

Signature of Stockholder

Date:

Note: Please sign exactly as your name or names appear on this Proxy. When shares are held jointly, each holder should sign. When signing as executor, administrator, attorney, trustee or guardian, please give full title as such. If the signer is a corporation, please sign full corporate name by duly authorized officer, giving full title as such. If signer is a partnership, please sign in partnership name by authorized person.