SPIRE CORP								
Form 8-K								
June 05, 2003								

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UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 8-K

CURRENT REPORT PURSUANT
TO SECTION 13 OR 15(D) OF THE
SECURITIES EXCHANGE ACT OF 1934

Date of report (Date of earliest event reported): May 27, 2003

COMMISSION FILE NUMBER: 0-12742

SPIRE CORPORATION
------(NAME OF SMALL BUSINESS ISSUER AS SPECIFIED IN ITS CHARTER)

MASSACHUSETTS 04-2457335

(STATE OR OTHER JURISDICTION OF INCORPORATION OR ORGANIZATION)

(I.R.S. EMPLOYER IDENTIFICATION NUMBER)

ONE PATRIOTS PARK, BEDFORD, MASSACHUSETTS 01730-2396

(ADDRESS OF PRINCIPAL EXECUTIVE OFFICES) (ZIP CODE)

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## ITEM 5. OTHER EVENTS

(a) On May 27, 2003 Spire Corporation (the "Company") announced that it had acquired Bandwidth Semiconductor, LLC of Hudson, New Hampshire. Bandwidth Semiconductor is a semiconductor foundry specializing in III-V materials and devices for defense and telecommunications

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applications. Additional information is set forth in Exhibit 99 to this Current Report on Form 8-K.

# ITEM 7. FINANCIAL STATEMENTS AND EXHIBITS

## (c) Exhibits:

99 News Release of the Company dated May 27, 2003.

#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, hereunto duly authorized.

SPIRE CORPORATION (Registrant)

Dated: June 5, 2003 By: /s/ Roger G. Little

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Roger G. Little

President, Chief Executive Officer

and Chairman of the Board

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#### EXHIBIT INDEX

Exhibit	Description								
99	News	Release	of	the	Company	dated	May	27,	2003