

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

FORM 8-K

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

Date of Report (Date of earliest event reported):

May 27, 2004

ULTRALIFE BATTERIES, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

0-20852

(Commission File Number)

16-1387013

(I.R.S. Employer Identification No.)

2000 Technology Parkway, Newark, New York 14513

(Address of principal executive offices) (Zip Code)

(315) 332-7100

(Registrant's telephone number, including area code)

Item 7. Financial Statements, Pro Forma Financials and Exhibits.

(a) Financial Statements of Business Acquired.

Not applicable.

(b) Pro Forma Financial Information.

Not applicable.

(c) Exhibits.

99.1 Press Release dated May 27, 2004

Item 9. Regulation FD Disclosure.

The Company will hold its annual meeting of shareholders for the period ending December 31, 2003, at the JPMorgan Chase Conference Center in New York City on Thursday, June 10, 2004 at 10:30 a.m. Eastern Time. Refer to the attached Exhibit 99.1 for the entire text of the release, which Exhibit is being furnished but not filed in accordance with Regulation FD.

SIGNATURE

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.

ULTRALIFE BATTERIES, INC.

By: /s/ Robert W. Fishback

Robert W. Fishback
VP of Finance & CFO

Dated: May 27, 2004

INDEX TO EXHIBITS

(99) Additional Exhibits

99.1 Press Release dated May 27, 2004

Ultralife Batteries Inc. to Hold Annual Meeting of Shareholders on June 10, 2004; Investors Invited to Access Live Webcast

NEWARK, N.Y.--(BUSINESS WIRE)--May 27, 2004--Ultralife Batteries, Inc. (NASDAQ:ULBI) will hold its annual meeting of shareholders for the period ending December 31, 2003, at the JPMorgan Chase Conference Center in New York City on Thursday, June 10, 2004 at 10:30 a.m. Eastern Time. Investors who are unable to attend in person are invited to view a live webcast of the meeting at the Investor Info section of Ultralife's web site at www.ultralifebatteries.com. A replay of the meeting will be available at Ultralife's web site on June 11.

About Ultralife Batteries, Inc.

Ultralife is a leading developer, manufacturer, and marketer of standard and customized lithium primary (non-rechargeable), lithium ion and lithium polymer rechargeable batteries. Ultralife's high-energy batteries use advanced lithium technology and are used in military, industrial and consumer portable electronic products. Through its range of standard products and ability to customize for a wide range of applications, Ultralife is able to provide the next generation of battery solutions. OEM, retail and government customers include Energizer, Kidde Safety, Philips Medical Systems, Radio Shack and the national defense agencies of the United States and United Kingdom, among others.

Ultralife's headquarters, principal manufacturing and research facilities are in Newark, New York, near Rochester. Ultralife (UK) Ltd., a second manufacturing and research facility, is located in Abingdon, U.K. Both facilities are ISO-9001 certified.

Detailed information on Ultralife is available at the Company's web site: www.ultralifebatteries.com.

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