

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

SCHEDULE 13G/A

UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No. 2)  
Ultralife Batteries, Inc.

-----  
(Name of Issuer)  
Common Stock, \$.10 par value

-----  
(Title of Class Securities)  
903899102

-----  
(CUSIP Number)

December 31, 2004

-----  
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to  
which this Schedule is filed:

/ / Rule 13d-1(b)  
/X/ Rule 13d-1(c)  
/ / Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a  
reporting person's initial filing on this form with respect  
to the subject class of securities, and for any subsequent  
amendment containing information which would alter  
disclosures provided in a prior cover page.

The information required on the remainder of this cover  
page shall not be deemed to be "filed" for the purpose of  
Section 18 of the Securities Exchange Act of 1934 ("Act")  
or otherwise subject to the liabilities of that section of  
the Act but shall be subject to all other provisions of the  
Act (however, see the Notes).

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  
(ENTITIES ONLY).  
Grace Brothers, Ltd.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP(See  
Instructions)  
(a) / /  
(b) / /

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
Illinois Limited Partnership

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5 SOLE VOTING POWER 0 SHARES	6 SHARED VOTING POWER 1,419,849 SHARES	7 SOLE DISPOSITIVE POWER 0 SHARES	8 SHARED DISPOSITIVE POWER 1,419,849 SHARES
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9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
1,419,849 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
9.9%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
PN

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  
(ENTITIES ONLY).  
SPURGEON CORPORATION

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP(See  
Instructions)  
(a) / /  
(b) / /

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
Illinois Limited Partnership

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5 SOLE VOTING POWER 0 SHARES	6 SHARED VOTING POWER 1,419,849 SHARES	7 SOLE DISPOSITIVE POWER 0 SHARES	8 SHARED DISPOSITIVE POWER 1,419,849 SHARES
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9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
1,419,849 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
9.9%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
PN

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  
(ENTITIES ONLY).  
BRADFORD T. WHITMORE

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP(See  
Instructions)  
(a) / /  
(b) / /

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
Illinois Limited Partnership

NUMBER OF SHARES	5 SOLE VOTING POWER 1,200 SHARES
BENEFICIALLY OWNED BY EACH REPORTING PERSON	6 SHARED VOTING POWER 1,419,849 SHARES
WITH	7 SOLE DISPOSITIVE POWER 1,200 SHARES
	8 SHARED DISPOSITIVE POWER 1,419,849 SHARES

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
1,421,049 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
9.9%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
PN

Page 5 of 7 Pages

Item 1.

(a) Name of Issuer

Ultralife Batteries, Inc.

(b) Address of Issuer's Principal Executive Offices

2000 Technology Parkway, Newark, New Jersey 14513

Item 2.

(a) Name of Person Filing

The statement is filed by Grace Brothers, Ltd., an Illinois limited partnership ("Grace"). Bradford T. Whitmore ("Whitmore") and Spurgeon Corporation ("Spurgeon") are the general partners of Grace.

(b) Address of Principal Business Office or, if none, Residence

The business address of Grace and Whitmore is 1560 Sherman Avenue, Suite 900, Evanston, IL 60201. The business of Spurgeon is 290 South County Farm Road, Third Floor, Wheaton, Illinois 60187.

(c) Citizenship

Illinois Limited Partnership

(d) Title of Class of Securities

Common Stock, \$.10 par value

(e) CUSIP Number

903899102

Item 3. If this statement is filed pursuant to Sections 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);

(b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);

(c)  Insurance company as defined in section 3 (a)(19) of the Act (15 U.S.C. 78c);

(d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);

(e)  An investment adviser in accordance with Section 240.13d-1(b)(1)(ii)(E);

- (f) ( ) An employee benefit plan or endowment fund in accordance with Section 240.13d-1(b)(1)(ii)(F);
- (g) ( ) A parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G);
- (h) ( ) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) ( ) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) ( ) Group, in accordance with Section 240.13d.-1(b)(1)(ii)(J).

Item 4. Ownership

(a) Amount beneficially owned  
1,421,049

(b) Percent of class  
9.9%

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote  
Whitmore: 1,200

(ii) Shared power to vote or to direct the vote  
Grace: 1,419,849 (with Whitmore and Spurgeon)

(iii) Sole power to dispose or to direct the disposition of  
1,200

(iv) Shared power to dispose or to direct the disposition of  
Grace: 1,419,849 (with Whitmore and Spurgeon)

Item 5. Ownership of Five Percent or Less of a Class  
Not applicable

Item 6. Ownership of More than Five Percent on Behalf of Another Person

No other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities.

Item 7. Identification and Classification of the  
Subsidiary Which Acquired the Security Being Reported on  
By the Parent Holding Company

Reporting person is not a parent holding company.

Item 8. Identification and Classification of Members of  
the Group

Reporting person is not a member of a group.

Item 9. Notice of Dissolution of Group

Reporting person is not filing notice of dissolution of  
a group.

Item 10. Certification

By signing below Grace Brothers, Ltd. certifies that, to  
the best of my knowledge and belief, the securities  
referred to above were acquired and are held in the  
ordinary course of business and were not acquired and are  
not held for the purpose of or with the effect of changing  
or influencing the control of the issuer of the securities  
and were not acquired and are not held in connection with  
or as a participant in any transaction having that purpose  
or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge  
and Belief, I certify that the information set forth in  
this Statement is true, complete and correct.

January 3, 2005

- - - - -

Date

Grace Brothers, Ltd.

by: /s/ Bradford T. Whitmore

- - - - -

Signature

General Partner

- - - - -

Title

Spurgeon Corporation

by: /s/ Jerald A. Trannel

- - - - -

Signature

General Partner

- - - - -

Title

Bradford T. Whitmore

by: /s/ Bradford T. Whitmore

- - - - -

Signature