

SEC 1344
(07-03)

PERSONS WHO ARE TO RESPOND TO THE COLLECTION OF INFORMATION
CONTAINED IN THIS FORM ARE NOT REQUIRED TO RESPOND UNLESS THE
FORM DISPLAYS A CURRENTLY VALID OMB CONTROL NUMBER.

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

FORM 12b-25

NOTIFICATION OF LATE FILING

OMB APPROVAL

OMB Number: 3235-0058

Expires: March 31, 2006

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(Check One): /X/ Form 10-K / / Form 20-F / / Form 11-K / / Form 10-Q
/ / Form N-SAR / / Form N-CSR

For Period Ended: December 31, 2004

/ / Transition Report on Form 10-K
/ / Transition Report on Form 20-F
/ / Transition Report on Form 11-K
/ / Transition Report on Form 10-Q
/ / Transition Report on Form N-SAR

For the Transition Period Ended:

Read Instruction (on back page) Before Preparing Form. Please Print or Type.

NOTHING IN THIS FORM SHALL BE CONSTRUED TO IMPLY THAT THE COMMISSION HAS
VERIFIED ANY INFORMATION CONTAINED HEREIN.

If the notification relates to a portion of the filing checked above, identify
the Item(s) to which the notification relates:

N/A

PART I -- REGISTRANT INFORMATION

LecTec Corporation

Full Name of Registrant

Former Name if Applicable

5616 Lincoln Drive

Address of Principal Executive Office (Street and Number)

Edina, Minnesota 55436

City, State and Zip Code

PART II -- RULES 12b-25(b) AND (c)

If the subject report could not be filed without unreasonable effort or expense
and the registrant seeks relief pursuant to Rule 12b-25(b), the following should
be completed. (Check box if appropriate)

(a) The reason described in reasonable detail in Part III of this form
could not be eliminated without unreasonable effort or expense

/X/ (b) The subject annual report, semi-annual report, transition report on
Form 10-K, Form 20-F, Form 11-K, Form N-SAR or Form N-CSR, or portion

thereof, will be filed on or before the fifteenth calendar day following the prescribed due date; or the subject quarterly report or transition report on Form 10-Q, or portion thereof, will be filed on or before the fifth calendar day following the prescribed due date; and

- (c) The accountant's statement or other exhibit required by Rule 12b-25(c) has been attached if applicable.

PART III -- NARRATIVE

State below in reasonable detail why Forms 10-K, 20-F, 11-K, 10-Q, N-SAR, N-CSR, or the transition report or portion thereof, could not be filed within the prescribed time period.

LecTec Corporation is unable to file its Annual Report on Form 10-K for the fiscal year ended December 31, 2004 within the prescribed time period for such report because of the Company's transition from being a manufacturing business to being an intellectual property licensing and holding company. This transition requires the Company to completely revise the textual portions of its Form 10-K, to reformat its financial statements to reflect significant discontinued operations and to restate prior financial periods in this new format. At the same time, the Company's staff has been severely reduced to reflect the Company's new business model which has also meant that there are fewer persons available to aid in preparation of the Form 10-K and the financial statements. All of these factors have combined to delay the preparation of the Company's Form 10-K beyond its initial due date.

PART IV -- OTHER INFORMATION

(1) Name and telephone number of person to contact in regard to this notification

Bill Johnson

(952)

933-2291 X24

(Name)

(Area Code)

(Telephone Number)

(2) Have all other periodic reports required under Section 13 or 15(d) of the Securities Exchange Act of 1934 or Section 30 of the Investment Company Act of 1940 during the preceding 12 months or for such shorter period that the registrant was required to file such report(s) been filed? If answer is no, identify report(s). Yes /X/ No / /

(3) Is it anticipated that any significant change in results of operations from the corresponding period for the last fiscal year will be reflected by the earnings statements to be included in the subject report or portion thereof? Yes /X/ No / /

If so, attach an explanation of the anticipated change, both narratively and quantitatively, and, if appropriate, state the reasons why a reasonable estimate of the results cannot be made.

As described above the Company's results of operations have changed dramatically from last year due to the transition of the Company from being a manufacturing business to being an intellectual property licensing and holding company. These changes are reflected in the press release issued by the Company on March 25, 2005 and attached as exhibit 99.1 to a Form 8-K filed with the Commission on March 30, 2005, which exhibit is hereby incorporated by reference herein.

LecTec Corporation

(Name of Registrant as Specified in Charter)

has caused this notification to be signed on its behalf by the undersigned hereunto duly authorized.

Date March 31, 2005

By /s/ Alan C. Hymes, M.D.

Alan C. Hymes, M.D., CEO

INSTRUCTION: The form may be signed by an executive officer of the registrant or by any other duly authorized representative. The name and title of the person signing the form shall be typed or printed beneath the signature. If the statement is signed on behalf of the registrant by an authorized representative (other than an executive officer), evidence of the representative's authority to sign on behalf of the registrant shall be filed with the form.

ATTENTION

INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACT CONSTITUTE FEDERAL CRIMINAL VIOLATIONS (SEE 18 U.S.C. 1001).

GENERAL INSTRUCTIONS

1. *This form is required by Rule 12b-25 (17 CFR 240.12b-25) of the General Rules and Regulations under the Securities Exchange Act of 1934.*
2. *One signed original and four conformed copies of this form and amendments thereto must be completed and filed with the Securities and Exchange Commission, Washington, D.C. 20549, in accordance with Rule 0-3 of the General Rules and Regulations under the Act. The information contained in or filed with the form will be made a matter of public record in the Commission files.*
3. *A manually signed copy of the form and amendments thereto shall be filed with each national securities exchange on which any class of securities of the registrant is registered.*
4. *Amendments to the notifications must also be filed on Form 12b-25 but need not restate information that has been correctly furnished. The form shall be clearly identified as an amended notification.*
5. *Electronic Filers: This form shall not be used by electronic filers unable to timely file a report solely due to electronic difficulties. Filers unable to submit reports within the time period prescribed due to difficulties in electronic filing should comply with either Rule 201 or Rule 202 of Regulation S-T (Section 232.201 or Section 232.202 of this chapter) or apply for an adjustment in filing date pursuant to Rule 13(b) of Regulation S-T (Section 232.13(b) of this chapter).*