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

**FORM 12b-25**

**NOTIFICATION OF LATE FILING**

(Check one):  Form 10-K  Form 20-F  Form 11-K  Form 10-Q  Form 10-D  Form N-SAR  Form N-CSR

For Period Ended: March 31, 2011

- 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

1407 South Kings Highway

Address of Principal Executive Office (*Street and Number*)

Texarkana, Texas 75501

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
- (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 subject distribution report on Form 10-D, 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, 10-D, N-SAR, N-CSR, or the transition report or portion thereof, could not be filed within the prescribed time period.

LecTec Corporation (the “Company”) is working to resolve certain accounting- and expense-related issues relating to the Company’s settlement of its patent infringement claims against Chattem Inc. and Prince of Peace Enterprises, Inc. and its sale of its hydrogel patch technology patents to Endo Pharmaceuticals Inc. The efforts associated with this resolution have caused a delay in the ability of the Company to close its books and records, finalize its operating results and prepare its financial statements for the quarter ended March 31, 2011. For these reasons, the Company has not been able to file its Quarterly Report on Form 10-Q for the quarter ended March 31, 2011 (the “Quarterly Report”) within the prescribed time period. Management is diligently working to close its books and records and prepare financial statements as soon as possible with a target of filing the Quarterly Report within the grace period prescribed by Rule 12b-25 under the Securities Exchange Act of 1934, as amended.

**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.**

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