

OMB APPROVAL
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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, 2008

- 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:

PART I — REGISTRANT INFORMATION

Integra LifeSciences Holdings Corporation

Full Name of Registrant

Former Name if Applicable

311 Enterprise Drive

Address of Principal Executive Office (Street and Number)

Plainsboro, NJ 08536

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.

The Registrant's Quarterly Report on Form 10-Q for the period ended March 31, 2008 cannot be filed on or prior to the prescribed May 12, 2008 due date without unreasonable effort and expense. As previously disclosed, the Registrant has identified a material weakness in its internal control over financial reporting with respect to the review and approval of certain account reconciliations, particularly in the areas of accrued liabilities, income taxes, intercompany and certain other asset accounts. While

the Registrant has taken steps to remediate the material weakness and to strengthen its internal control processes and procedures, this material weakness contributed to a delay in the closing of certain accounts, including without limitation, inventory, accounts receivable, accounts payable and intercompany accounts related to certain of its locations, its tax provision and its deferred tax balance sheet accounts. Accordingly, the Registrant has not completed its audited financial statements or its Annual Report on Form 10-K for the year ended December 31, 2007. The Registrant plans to file the Annual Report on Form 10-K for the year ended December 31, 2007 as soon as possible.

Once its Annual Report on Form 10-K for the year ended December 31, 2007 is filed, the Registrant will be able to complete its unaudited financial statements for the first quarter of 2008 and file its Quarterly Report on Form 10-Q for the period ended March 31, 2008. The Registrant will file the Form 10-Q as soon as practicable, but does not expect to be able to do so within the five calendar day extension period provided for under Rule 12b-25 of the General Rules and Regulations under the Securities Exchange Act of 1934, as amended.

SEC 1344 (05-06) **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.**
