

OMB APPROVAL
OMB Number: 3235-0058 Expires: April 30, 2009 Estimated average burden hours per response ... 2.50
SEC FILE NUMBER
CUSIP NUMBER

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

FORM 12b-25

NOTIFICATION OF LATE FILING

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

For Period Ended: December 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 Annual Report on Form 10-K for the year ended December 31, 2008 cannot be filed on or prior to the prescribed March 2, 2009 due date without unreasonable effort and expense. Because of an unanticipated delay in finalizing the

analysis of certain accounts, the Registrant did not complete its review and preparation of the financial statements by the prescribed March 2, 2009 due date. As a result, the Registrant did not have sufficient time to finalize its review and preparation of its Annual Report on Form 10-K (including audited financial statements) before the March 2, 2009 deadline. The Registrant filed its Annual Report on Form 10-K on March 3, 2009, which was within the period prescribed by 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.**

(Attach extra Sheets if Needed)
PART IV — OTHER INFORMATION

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

John B. Henneman, III (609) 275-0500
(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 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 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.

On March 2, 2009, the Registrant issued a press release announcing financial results for the quarter and year ended December 31, 2008. A copy of the press release is attached as Exhibit 99.1 to the Registrant's Current Report on Form 8-K dated March 2, 2009.

Integra LifeSciences Holdings 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 3, 2009

By /s/ John B. Henneman

John B. Henneman, III
Executive Vice President,
Finance and Administration,
and Chief Financial Officer