



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

For Period Ended: June 30, 2007

- 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.

Due to recent turnover in staff accounting personnel, the Registrant was unable, without unreasonable effort or expense, to file its Quarterly Report on Form 10-Q for the period ended June 30, 2007 with the Securities and Exchange Commission within the prescribed time period. In addition, key personnel were required to devote time and attention to the IsoTis transaction announced on August 7, 2007. In accordance with Rule 12b-25 under the Securities Exchange Act of 1934, as amended, the Registrant anticipates filing its Form 10-Q for the quarter ended June 30, 2007 no later than five calendar days following the prescribed due date.

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.**

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

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

Maureen B. Bellantoni                      (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 August 7, 2007, the Registrant issued a press release announcing financial results for the quarter ended June 30, 2007. A copy of the press release is attached as Exhibit 99.1 to the Registrant's Current Report on Form 8-K, dated August 7, 2007.

For the quarter ending June 30, 2007, the Registrant reported total revenues of \$134.8 million, reflecting an increase of \$34.6 million over the second quarter of 2006. The Registrant reported net income of \$9.3 million, or \$0.31 per diluted share, for the second quarter of 2007, compared to net income of \$8.0 million, or \$0.26 per diluted share, in the second quarter of 2006.

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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 August 9, 2007

By /s/ Maureen B. Bellantoni  
Maureen B. Bellantoni  
Executive Vice President and  
Chief Financial Officer