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

Schedule 13D

Under the Securities Exchange Act of 1934

(Amendment No. 4)

Common Stock Par Value \$.01 (Title of Class of Securities)

457985208 (CUSIP Number)

Stuart M. Essig c/o Integra LifeSciences Holdings Corporation 311 Enterprise Drive Plainsboro, New Jersey 08536

With a copy to:

Jonathan B. Levy Lindquist & Vennum P.L.L.P. 4200 IDS Center Minneapolis, Minnesota 55402 (612) 371-3211

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

June 12, 2007 (Date of Event Which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13(d)-1(g), check the following box. [ ]

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No.	457985208
1	Names of reporting persons S.S. or I.R.S. Identification No. of above persons
	Stuart M. Essig
2	Check the appropriate box if a member of a group (see instructions) (a) [ ] (b) [ ]
3	SEC use only
4	Source of funds (see instructions)

	PF		
5	Check if disclosure of legal proceedings is required pursuant to items 2(d) or 2(e) [ ]		
6	Citizenship or place of organization		
	United States		
Number of	7	Sole voting power	
shares		1,948,022*	
beneficial owned by	ly 8	Shared voting power	
each		0	
reporting	9	Sole dispositive power	
person with	n	1,948,022*	
por son with	10	Shared dispositive power	
		0	
11	Aggregate amount	beneficially owned by each reporting person	
	1,948,022*		
12	Check box if the aggregate amount in row (11) excludes certain shares [ ]		
	(See instructions)		
13	Percent of class represented by amount in row (11)		
	7.1%		
14	Type of reporting person (See instructions)		
	IN		
* Includes	1,224,859 shares	of common stock underlying options to purchase	

<sup>\*</sup> Includes 1,224,859 shares of common stock underlying options to purchase common stock. Options to purchase 748,296 shares of common stock are exercisable as of, or within 60 days of, June 18, 2007. Although shares underlying all options held by Mr. Essig are included in the amounts set forth on lines 7, 9 and 11, Mr. Essig disclaims beneficial ownership of the 476,563 shares of common stock underlying options not exercisable as of, or within 60 days of, June 18, 2007

This Amendment No. 4("Amendment No. 4") amends and supplements the statement on Schedule 13D initially filed on November 14, 2005 (the "Original Filing" and, as amended, the "Schedule 13D") by Stuart M. Essig with respect to Common Stock, \$.01 par value (the "common stock"), of Integra LifeSciences Holdings Corporation (the "Company"). Capitalized terms used and not defined in this Amendment No. 3 have the meanings set forth in the Schedule 13D.

Item 5 of the Schedule 13D is hereby amended and restated in its entirety as follows:

(a) Aggregate number and percentage of class beneficially owned:

As of June 18, 2007, Mr. Essig may be deemed to be the beneficial owner of 1,948,022 shares of common stock. This ownership consists of the following:

- (i) 723,163 shares of common stock held directly by Mr. Essig; and
- (ii) 1,224,859 shares of common stock underlying options to purchase common stock (of which options to purchase 748,296 shares of common stock are exercisable as of, or within 60 days of, June 18, 2007).

Based on calculations made in accordance with Rule 13d-3(d), Mr. Essig may be deemed the beneficial owner of 7.1% of the outstanding shares of common stock. This calculation is based on 27,484,805 shares of common stock outstanding as of May 4, 2007.

The above calculations include 476,563 shares of common stock underlying options held by Mr. Essig that are not exercisable as of, or within 60 days of, June 18, 2007. Mr. Essig disclaims beneficial ownership of these shares. Excluding these shares, Mr. Essig would be deemed the beneficial owner of 1,471,459 shares of commons stock (or 5.4% of the outstanding shares of common stock).

(b) Voting and Dispositive Power:

Mr. Essig has sole voting and dispositive power over 1,948,022 shares that may be deemed to be beneficially owned by him as of June 18, 2007. This consists of the following (i) the 723,163 shares of common stock held directly by Mr. Essig and (ii) 1,224,859 shares of common stock underlying options to purchase common stock, of which Mr. Essig disclaims beneficial ownership with respect to 476,563 shares of common stock as set forth in Item 5(a).

- (c) Transactions within the past 60 days: Not applicable.
- (d) Right to Direct the Receipt of Dividends: Not applicable.
- (e) Last Date on Which Reporting Person Ceased to be a 5% Holder: Not Applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

The information under the heading "Sale Plans Under Rule 10b5-1" of Item 6 of the Schedule 13D is hereby amended by adding the following paragraph at the end of such section:

On June 12, 2007, Mr. Essig entered into a sales plan pursuant to Rule 10b5-1 under the Act with a registered broker-dealer. The plan provides for the sale of up to 223,163 shares of common stock at specified prices.

## Signature

After reasonable inquiry and to the best of his knowledge and belief, the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: June 19, 2007

Name /s/ Stuart M. Essig