

INTEGRA LIFESCIENCES HOLDINGS CORPORATION  
311 Enterprise Drive  
Plainsboro, NJ 08536

VIA EDGAR TRANSMISSION

October 14, 2005

Securities and Exchange Commission  
450 Fifth Street, N.W.  
Washington, D.C. 20549-0404

Re: Integra LifeSciences Holdings Corporation  
Post Effective Amendment No. 2 to Registration Statement on Form S-3  
(FILE NO. 333-106625)

Dear Sir or Madam:

Pursuant to Rule 477 of the Securities Act of 1933, as amended, Integra LifeSciences Holdings Corporation, a Delaware corporation (the "Registrant"), hereby respectfully applies to the Securities and Exchange Commission (the "Commission") to withdraw the Registrant's Post Effective Amendment No. 2 to Registration Statement on Form S-3, together with all exhibits, filed on August 3, 2004 (the "Post Effective Amendment") (File No. 333-106625), with such application for withdrawal to be approved effective as of the date hereof or at the earliest practicable date hereafter. The Commission has not declared the Post Effective Amendment effective.

The Registrant is withdrawing the Post Effective Amendment pursuant to discussions with Mr. Greg Belliston of the Commission. The Registrant confirms that to its knowledge, no securities have been sold pursuant to the Post Effective Amendment.

If you have any questions or would like to discuss the Post Effective Amendment or any of the matters covered by this letter, please contact Michael D. Levin of Latham & Watkins LLP, counsel to the Registrant, at (312) 876-7727.

Very truly yours,

Integra LifeSciences Holdings Corporation

By: /s/ JOHN B. HENNEMAN, III

-----  
John B. Henneman, III  
Executive Vice President  
Chief Administrative Officer and Secretary