

Mail Stop 6010

October 22, 2007

Nicholas Landekic  
Chief Executive Officer  
PolyMedix, Inc.  
170 N. Radnor-Chester Road, Suite 300  
Radnor, Pennsylvania 19087

**Re: PolyMedix, Inc.  
Registration Statement on Form SB-2, Amendment 2  
Filed October 16, 2007  
File No. 333-146180**

Dear Mr. Landekic:

We have limited our review of your filing to those issues we have addressed in our comments. Where indicated, we think you should revise your document in response to these comments. If you disagree, we will consider your explanation as to why our comment is inapplicable or a revision is unnecessary. Please be as detailed as necessary in your explanation. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure. After reviewing this information, we may raise additional comments.

Please understand that the purpose of our review process is to assist you in your compliance with the applicable disclosure requirements and to enhance the overall disclosure in your filing. We look forward to working with you in these respects. We welcome any questions you may have about our comments or any other aspect of our review. Feel free to call us at the telephone numbers listed at the end of this letter.

Prospectus Cover Page

1. We note the revisions pursuant to comments 1 and 2. Please disclose the exercise price of the warrants prior to circulation. This information is required by Item 501(a)(2) of Regulation S-B, which requires a description of the securities to be offered.

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Nicholas Landekic  
Polymedix, Inc.  
October 22, 2007  
Page 2

As appropriate, please amend your registration statement in response to these comments. You may wish to provide us with marked copies of the amendment to expedite our review. Please furnish a cover letter with your amendment that keys your responses to our comments and provides any requested information. Detailed cover letters greatly facilitate our review. Please understand that we may have additional comments after reviewing your amendment and responses to our comments.

We direct your attention to Rules 460 and 461 regarding requesting acceleration of a registration statement. Please allow adequate time after the filing of any amendment for further review before submitting a request for acceleration. Please provide this request at least two business days in advance of the requested effective date.

Please contact Greg Belliston at (202) 551-3861 or me at (202) 551-3715 with any questions.

Sincerely,

Jeffrey P. Riedler  
Assistant Director

cc: Jeffrey P. Libson, Esq.  
Christopher S. Miller, Esq.  
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