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OMB No. 0651-011 (exp.4/94)

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To the Honorable Commissioner of Patents and Trademarks

Send original documents or copy thereof.

1. Name of conveying party(ies):

Andrew M. Ray

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies):
Name: Axcelis Technologies, Inc.
Internal Address: _____

17302 U.S.P.T.O.
10/762821



3. Nature of conveyance:
 Assignment [] Merger
 Security Agreement [] Change of Name
 Other _____
Execution Date: January 22, 2004


Street Address: 108 Cherry Hill Drive
_____ City: Beverly
State/Country: Massachusetts ZIP: 01915-1053
Additional name(s) & address(es) attached? [] Yes [X] No

4. Application number(s) or patent number(s): 101762821
If this document is being filed together with a new application, the execution date of the application is: January 21, 2004
A. Patent Application No.(s) _____ B. Patent No.(s) _____
Additional Numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Thomas G. Eschweiler
Internal Address: _____
_____ Eschweiler & Associates, LLC
Street Address: 629 Euclid Avenue, Suite 1210
_____ City: Cleveland
State: Ohio ZIP: 44114

6. Total number of applications and patents involved: [1]
7. Total fee (37 CFR 3.41)\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
50-1733
(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
Thomas G. Eschweiler  January 22, 2004
Name of Person Signing Signature Date

Reg. No. 36,981 Total number of pages including cover sheet attachments, and document: [3]

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Andrew M. Ray
155 Northern Boulevard
Newburyport, Massachusetts 01950

NOW, THEREFORE, for and in consideration of our employment and the salary or wages paid to me by Axcelis Technologies, Inc., I, Andrew M. Ray, by these present do sell, assign, and transfer unto said Axcelis Technologies, Inc., a corporation organized and existing under the laws of the State of Delaware, having its principal place of business at 108 Cherry Hill Drive, Beverly, Massachusetts 01915-1053, is desirous of acquiring an interest therein, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions entitled

**METHOD OF CORRECTION FOR WAFER CRYSTAL
CUT ERROR IN SEMICONDUCTOR PROCESSING**

for which application for United States Letters Patent has been filed on _____ under Serial No. _____, or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all

documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Signed:

Date:

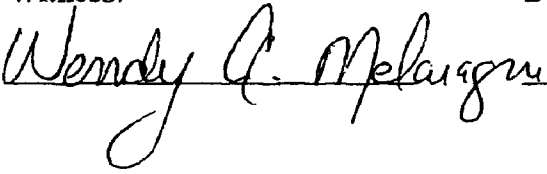


Andrew M. Ray

1/22/04

Witness:

Date:



Wendy A. Mplavigni

1/22/04