-12-2004 U.S. DEPARTMENT OF COMMERCE **FORM PTO-1595 REC** ET Patent and Trademark Office (REV 6-93) EATNP160US OMB No. 0651-011 (exp.4/94) 102743316 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): Mehran Asdigha Axcelis Technologies, Inc. Kurt D. Cleveland Jay Krishnasamy Internal Address: Kan Ota Additional name(s) of conveying party(ies) attached? [] Yes [X] No Street Address: 108 Cherry Hill Drive 3. Nature of conveyance: [X] Assignment [] Merger City: Beverly] Security Agreement [] Change of Name Massachusetts ZIP: 01915-1053 State/Country: Execution Date: May 5, May 4, May 4 & May 5, 2004 Additional name(s) & address(es) attached? [] Yes [X] No Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: May 5, May 4, May 4 & May 5, 2004 B. Patent No.(s) A. Patent Application No.(s) Additional Numbers attached? [] Yes [X] No Name and address of party to whom 6. Total number of applications and patents involved: [1] correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41)\$____ Thomas G. Eschweiler Name: ____ Internal Address: [X] Enclosed Eschweiler & Associates, LLC [X] Authorized to be charged to deposit account Street Address: 629 Euclid Avenue, Suite 1210 8. Deposit account number: Cleveland 50-1733 City: ZIP: 44114 Ohio State: (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE Statement and signature.

Name of Person Signing Total number of pages including cover sheet attachments, and document: [3]

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments

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of the original document.

Reg. No.

Thomas G. Eschweiler

PATENT

REEL: 015311 FRAME: 0342

May 6, 2004 Date

ASSIGNMENT

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

Mehran AsdighaKurt D. Cleveland1 Birch Brush Road7 Richards Road

Shrewsbury, Massachusetts 01545 Beverly, Massachusetts 01915

Jay Krishnasamy Kan Ota

5 Jennifer Circle 19 Shepard Street, Apt. 24
Billerica, Massachusetts 01821 Cambridge, Massachusetts 02138

NOW, THEREFORE, for and in consideration of our employment and the salary or wages paid to us by Axcelis Technologies, Inc., we, Mehran Asdigha, Kurt D. Cleveland, Jay Krishnasamy and Kan Ota 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

MECHANICAL OSCILLATOR FOR WAFER SCAN WITH SPOT BEAM

for which applicati	on for United States Letters Patent has been filed on	under
Serial No	or was executed by the undersigned on the date belo	w and is being filed
	vith, said application for United States Letters Patent, any and	
	on said inventions in countries foreign to the United States, inc	
	, continuation and Convention applications based in whole of	
	said applications, and any and all Letters Patent and reissue	
	ted for said inventions or upon said applications, and every pr	
may be predicated	upon or arise from said inventions, said applications and said	Letters Patent; said
	eby authorized to file patent applications in any or all countrie	
	name of the undersigned or in the name of said assignee or	
	advisable, under the International Convention or otherwise; t	
Patents and Trader	marks of the United States of America and the empowered of	officials of all other
governments being	hereby authorized to issue or transfer all said Letters Patent	to said assignee in
	th; this assignment being under covenant, not only that full	
same is had by the	undersigned, but also that such assigned right is not encum	bered by any grant,
	ht heretofore given, and that the undersigned will do all acts re	
assure that said inv	entions, patent applications and Letters Patent shall be held a	and enjoyed by said
assignee as fully an	d entirely as the same could have been held and enjoyed by the	undersigned if this

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PATENT REEL: 015311 FRAME: 0343 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.

Date: Mehran Asdigha Witness: Date: Signed: Date: Signed: Date: Jay Krishmasamy Witness: Date: Signed: Date: Kan Ota Date:

RECORDED: 05/06/2004

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