NATIONAL RETAIL PROPERTIES, INC.

Form 4

August 02, 2013

FORM 4

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

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

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30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Add LANIER TED	*	ing Person *	2. Issuer Name and Ticker or Trading Symbol NATIONAL RETAIL PROPERTIES, INC. [NNN]	5. Relationship of Reporting Person(s) (Issuer (Check all applicable)					
(Last) 450 S. ORAN 900	(First) GE AVENU	(Middle) JE, SUITE	3. Date of Earliest Transaction (Month/Day/Year) 07/31/2013	_X_ Director 10% Owner Officer (give title Other (specify below)					
ORLANDO, I	(Street) FL 32801		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person					

(City)	(State)	(Zip) Tabl	e I - Non-D	erivative S	Secur	ities Acq	uired, Disposed o	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securit on(A) or Dia (Instr. 3, 4)	spose	d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	07/31/2013	07/31/2013	A	643 (1)	A	\$ 34.99	68,311	D	
Common Stock							14,000	I	By Spouse
Common Stock							2,500	I	By Trust

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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displays a currently valid OMB control

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4. Transacti	5. orNumber	6. Date Exerc Expiration D		7. Title Amou		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(Monda Day) Teal)	any (Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/ e		Under Securi	lying	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address				
	Director	10% Owner	Officer	Other
LANIER TED B				
450 S. ORANGE AVENUE	X			
SUITE 900	Λ			
ORLANDO, FL 32801				

Signatures

/s/ Ted B. Lanier 08/02/2013

**Signature of Date
Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Shares were acquired pursuant to a stock award under the National Retail Properties 2007 Performance Incentive Plan in a transaction 16-b.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number. ht width="1%">>582Net income (loss) attributed to MTI 2,386 (1,758) (3,099) (12,504) (9,575) Basic and Diluted Income (Loss) Per ShareIncome (loss) per share, basic and diluted\$0.48 \$(0.37) \$(0.65) \$(2.62) \$(2.01)Weighted average number of common shares outstanding5,001,9344,771,6584,772,3594,763,547 Balance Sheet Data (as of period end):Working capital\$3,142 \$1,534 \$1,163 \$252 \$11,347 Securities available for sale 4,492Total as \$402 3,601 3,741 5,511 18,716 Total long-term

254904Total MTI stockholders' equity (defit;601 (1,446) (1,135) 1,515 13,803

Reporting Owners 2

Item 7: Management s Discussion and Analysis of Financial Condition and Results of Operations

The following discussion of our financial condition and results of operations should be read in conjunction with our Consolidated Financial Statements and the related notes included elsewhere in this Annual Report. This discussion contains forward-looking statements, which involve risk and uncertainties. Our actual results could differ materially from those anticipated in the forward-looking statements as a result of certain factors, including those discussed in Item 1A: Risk Factors and elsewhere in this Annual Report.

Overview

MTI operates in two segments: the Test and Measurement Instrumentation segment, which is conducted through MTI Instruments, Inc. (MTI Instruments), a wholly-owned subsidiary, and the New Energy segment, which is conducted through MTI MicroFuel Cells, Inc. (MTI Micro), a variable interest entity (VIE) as of December 31, 2011. MTI and MTI Micro currently share the same board of directors, while MTI also continues to oversee the day to day operations, exercise management decision making, seek opportunities to sell intellectual properties, and have a vested interest in the commercialization of MTI Micro s fuel cell technology. Since inception in 2001, MTI has made the largest investment and been the principal funder of MTI Micro. MTI has also been exposed to losses and has the ability to benefit from MTI Micro. Considering the facts and circumstances, management believes MTI is most closely associated with the VIE, MTI Micro, and therefore, it is the primary beneficiary. Should there be a change in the facts and circumstances (such as a change in governance or a change to the related party group) management will reassess whether they act as the primary beneficiary and should continue to include MTI Micro in MTI s consolidated results of operations.

Test and Measurement Segment MTI Instruments is a worldwide supplier of metrology, portable balancing equipment and inspection systems. Our products use state-of-the-art technology to solve complex real world applications in numerous industries including automotive, semiconductor, solar cell manufacturing, material testing, commercial and military aviation and data storage. We are continuously working on ways to expand our sales reach, including expanded sales coverage throughout Europe and Asia, as well as a focus on internet marketing.

Our test and measurement segment has three product groups: Precision Instruments, Semiconductor and Solar Metrology Systems, and Aviation Balancing Systems. Our products consist of electronic, computerized gauging instruments for position, displacement and vibration applications for the design, manufacturing/production and test and research markets; metrology tools for wafer characterization of semiconductor and solar wafers; tensile stage systems for materials testing in research and industrial settings; and engine balancing and vibration analysis systems for both military and commercial aircraft.

In 2011, MTI Instruments was awarded a \$4.1 million multi-year U.S. Air Force contract for the purchase of PBS4100+ portable aircraft engine balancing systems. As of December 31, 2011, MTI Instruments had recorded \$684 thousand in orders, approximately 16.7% of the total contract s total value. MTI Instruments also has a multi-year U.S. Air Force contract to service and repair its existing fleet of PBS-4100/+ jet engine balancing systems with the latest diagnostic and balancing technology, which could potentially generate up to a total of \$6.5 million in sales for the Company between 2009 and 2014. As of December 31, 2011, MTI Instruments had recorded \$2.9 million in orders, approximately 44.6% of the contract s total value.

New Energy Segment - MTI Micro has been developing an off-the-grid power solutions for various portable electronic devices. Our patented proprietary direct methanol fuel cell (DMFC) technology platform, called Mobion®, converts methanol fuel to usable electricity capable of providing continuous power as long as necessary fuel flows are maintained. Our proprietary fuel cell power solution consists of two primary components integrated into an easily manufactured device: the direct methanol fuel cell power engine, which we refer to as our Mobion® Chip, and methanol fuel cartridges. The methanol used by the technology is fully biodegradable.

Although MTI Micro continues to believe in the potential of its Mobion® based power solutions, operations have been suspended at MTI Micro until such time as market demand and other deciding factors, including obtaining additional external financing, the successful completion of customer trials, a new development program with a government agency, and/or a customer order come to fruition. Currently, MTI Micro has no employees and projects to spend between \$5 and \$10 thousand per month for operating activities including rent, preparing prototypes for customer demonstrations, minimal sales efforts, and patent fees to keep its patent portfolio current and minimal consultant costs to perform these initiatives. MTI Micro will continue to seek additional capital from external sources to resume operations and fund future development, if any. If MTI Micro is unable to secure additional financing, a new development program or customer order, the MTI Micro board of directors will assess other options for MTI Micro including the sale of MTI Micro s intellectual property portfolio and other assets.

In the second half of 2010, we entered into a firm fixed price contract for the development of proof of concept fuel cells for technical testing with a United States Department of Defense (DOD) agency. Additionally, during the first quarter of 2011, we completed the work required under the United States Department of Energy (DOE) grant awarded for the period January 8, 2009 through March 30, 2011. The objective of the grant was to demonstrate and field test a commercially viable one watt DMFC charger for consumer electronic devices. As part of this objective, MTI Micro field tested 75 units to various users, including 17 OEM s, 33 individuals, 21 military agencies and four governmental

agencies. We have achieved all technical performance targets required by the DOE under this grant; this field testing has concluded and the final report to the DOE may be found at http://www.mtimicrofuelcells.com/news/events.asp. Additional experimental testing was conducted at the DOD since the fourth quarter of 2010 that resulted in product improvements in the third quarter of 2011. Further testing by the DOD of our Mobion® fuel cell charger commenced in October 2011. If approval is granted, this may result in the signing of a commercialization contract or purchase orders for final production. To date, no such approval has been granted and there is no clear indication as to when MTI Micro will be notified.

Recent Developments

Material Agreements On February 9, 2011, Amendment No. 1 to the Common Stock and Warrant Purchase Agreement (the Purchase Agreement) was entered into between MTI Micro and Counter Point. The total \$450 thousand of Amendment No. 1 was drawn down as of September 30, 2011. In exchange, Counter Point received 6,428,574 shares of MTI Micro Common Stock and 1,285,715 MTI Micro Warrants. See Note 10 in the consolidated financial statements for further discussion of this transaction.

On September 23, 2011, Amendment No. 2 to the Purchase Agreement was entered into between MTI Micro and Counter Point. The total \$84 thousand of Amendment No. 2 has been drawn down as of December 31, 2011. In exchange, Counter Point received 1,200,000 shares of MTI Micro Common Stock and 240,000 MTI Micro Warrants. See Note 10 in the consolidated financial statements for further discussion of this transaction.

Line of Credit On September 20, 2011, MTI Instruments entered into a working capital line of credit with First Niagara Bank, N.A. Pursuant to the Demand Grid Note, MTI Instruments may borrow from time to time up to \$400 thousand to support its working capital needs. The note is payable upon demand, and the interest rate on the note is equal to the prime rate with a floor of 4.0% per annum. The note is secured by a lien on all of the assets of MTI Instruments and is guaranteed by the Company. The line of credit is subject to a review date of June 30, 2012. Under the line of credit, MTI Instruments is required to hold a line balance of \$0 for 30 consecutive days out during each consecutive year. As of December 31, 2011, there were no amounts outstanding under the line of credit.

Results of Operations

Results of Operations for the Year Ended December 31, 2011 Compared to December 31, 2010.

Test and Measurement Instrumentation Segment

Product Revenue: Product revenue in our test and measurement instrumentation segment for the year ended December 31, 2011 increased by \$3.1 million, or 43.2%, to \$10.3 million in 2011 from \$7.2 million in 2010. This increase in product revenue was due to a \$2.6 million rise in new aviation balancing equipment sales and higher capacitance product sales. These product revenue increases were partially offset by a decline in wafer metrology tool shipments. As with the prior year, the US Air Force was the largest customer for the segment; accounting for \$2.3 million, or 22.4%, of the total year product revenue, as compared to \$1.6 million, or 22.3%, of the total product revenue in 2010. The segment s largest commercial customer in 2011 was a Southeast Asian distributor, who accounted for \$1.1 million, or 10.7%, of the total product revenue, as compared to the largest commercial customer in the prior year who was a Chinese distributor, who accounted for \$560 thousand, or 7.8%, of the total product revenue in 2010.

Information regarding government contracts included in product revenue is as follows:

(Dollars in thousands)		Rev	enues fo	r the					tal intract ders	
		Two	elve Mon	ths E	nded		enue itract to	Rec	eived	
		Dec	ember 3	1,	Date December		to Date December			
Contract ⁽¹⁾	Expiration	201	2011 2010				2011	31, 2	2011	
\$2.3 million Air Force New PBS-4100 Systems	07/28/2010 (2)	\$		\$	57	\$	2,166	\$	2,166	
\$6.5 million Air Force Retrofit and Maintenance of PBS-4100 Systems	09/27/2014 (3)	\$	1,080	\$	1,386	\$	2,905	\$	2,936	
\$4.1 million Air Force New PBS-4100 Systems	08/29/2015 (4)	\$	684	\$		\$	684	\$	684	

⁽¹⁾ Contract values represent maximum potential values and may not be representative of actual results.

Cost of Product Revenue: Cost of product revenue in our test and measurement instrumentation segment for the year ended December 31, 2011 increased by \$851 thousand, or 29.1%, to \$3.8 million in 2011 from \$2.9 million in 2010 in conjunction with the aforementioned 43.2% increase in product revenue. Gross profit, as a percentage of product revenue, increased to 63.2%, compared to 59.2% for the same period in 2010 due to reductions in material component costs and warranty repairs.

⁽²⁾ Date represents expiration of contract after all three annual option extensions.

⁽³⁾ Date represents expiration of contract, including all four potential option extensions.

⁽⁴⁾ Date represents expiration of contract, including all four potential option extensions.

Unfunded Research and Product Development Expenses: Unfunded research and product development expenses in our test and measurement instrumentation segment for the year ended December 31, 2011 increased by \$284 thousand, or 29.6%, to \$1.2 million in 2011 from \$959 thousand in 2010. This increase is attributable to higher material spending on current development projects throughout the year, along with additional personnel costs in the segment s engineering department.

Selling, General and Administrative Expenses: Selling, general and administrative expenses in our test and measurement instrumentation segment for the year ended December 31, 2011 increased by \$322 thousand, or 16.2%, to \$2.3 million in 2011 from \$2.0 million in 2010. This increase is the result of additional staffing in the segment sales and business development departments along with higher consultant costs.

New Energy Segment

Funded Research and Development Revenue: Funded research and development revenue in our new energy segment for the year ended December 31, 2011 decreased \$1.2 million, or 99.0%, to \$13 thousand in 2011 from \$1.2 million in 2010. The decrease in funded research and development revenue was primarily the result of the work performed under the DOE and NYSERDA contracts being substantially completed in 2010 for the commercialization of our fuel cell product. Final billings for these grants occurred in the first quarter of 2011, and no further grants have been received.

Information regarding government contracts included in funded research and development revenue is as follows:

(Dollars in thousands)		Revenue the Year Ended Decemb	r	Year Ended	ue for the lber 31,	Rever	nue ract to
Contract	Expiration (1)	2011		2010		Date	
\$2.99 million DOE ⁽²⁾	03/31/11	\$	7	\$	944	\$	2,994
\$296 thousand NYSERDA Total	12/31/10	\$	6 13	\$	290 1,234	\$	296 3,290

⁽¹⁾ Dates represent expiration of contract, not date of final billing.

Funded Research and Product Development Expenses: Funded research and product development expenses in our new energy segment for the year ended December 31, 2011 decreased by \$2.5 million, or 99.0%, to \$25 thousand in 2011 from \$2.5 million in 2010. This decrease is a result of the majority of the work being performed in 2010 for the DOE and NYSERDA contracts, whose contracts concluded in the first quarter of 2011, as discussed in funded research and development revenue above.

Unfunded Research and Product Development Expenses: Unfunded research and product development in our new energy segment for the year ended December 31, 2011 decreased by \$160 thousand, or 44.7%, to \$199 thousand in 2011 from \$358 thousand in 2010. This decrease from the prior year was due to staff reductions and substantial cut backs in external development spending throughout 2011.

Selling, General and Administrative Expenses: Selling, general and administrative expenses in our new energy segment for the year ended December 31, 2011 decreased by \$957 thousand, or 49.1%, to \$993 thousand in 2011 from \$1.9 million in 2010. This decrease was primarily the result of a significant decrease in personnel costs and benefits of \$2.1 million, a reduction in rent and other facility costs of \$256 thousand, travel expense reductions of \$28 thousand, depreciation expense reductions of \$174 thousand and a reduction in China operations of \$81 thousand for the year. These reductions in expense were offset by a reduction in the allocation of costs to research and development of \$1.7 million.

Results of Consolidated Operations

Operating Income (Loss): Operating income for the year ended December 31, 2011 was \$52 thousand compared to an operating loss of \$3.4 million for the year ended December 31, 2010. This decrease in operating loss was a result of the factors noted above.

Gain (loss) on Derivatives: We recorded a gain on derivative accounting of \$73 thousand for the year ended December 31, 2011 and a loss of \$3 thousand on derivative accounting for the year ended December 31, 2010. Both the 2011 gain and 2010 loss are the result of derivative treatment of the freestanding warrants issued to investors in conjunction with our December 2006 capital raise. These warrants expired on December 19, 2011.

⁽²⁾ The DOE contract was initially awarded for \$2.4 million, effective for January 2009 through March 31, 2010. An extension to this was granted in April 2010, increasing total funding to \$2.99 million and an expiration date of 3/31/2011. The DOE contract was a cost share contract.

Income Tax Benefit (Expense): Income tax benefit for the year ended December 3, 2011 was \$1.5 million compared to income tax expense of \$4 thousand for the same period in 2010. Our income tax rate for the years ended December 31, 2011 and 2010 was 1,548% and 0%, respectively. The 2011 tax rate was primarily the result of the reversal of a portion of the valuation allowance to reflect the portion of the Company s deferred tax asset that management has estimated is more likely than not to be realized. The 2010 tax rate was primarily the result of losses generated by operations, changes in the valuation allowance, state true-ups upon tax return filings, and permanent deductible differences for the derivative valuation. The valuation allowance against our deferred tax assets at December 31, 2011 and at December 31, 2010 was \$19.8 million and \$27.8 million, respectively.

Net Losses Attributed to Non-Controlling Interests (of MTI Micro): The net loss attributed to non-controlling interests for the year ended December 31, 2011 decreased by \$900 thousand, or 55.0%, to \$738 thousand in 2011 from \$1.6 million in 2010. This is the result of a decrease in the net loss of MTI Micro from \$3.6 million in 2010 to \$1.5 million in 2011, offset in part, by an increase in the percentage of ownership of the non-controlling interest of MTI Micro in 2011.

Net Income (Loss): Net income for the year ended December 31, 2011 was \$2.4 million compared to a net loss of \$1.8 million for the same period in 2010. The increase in net income of \$4.1 million for the year ended December 31, 2011 as compared to the same period in 2010 is primarily attributed to the reversal of a portion of the deferred tax asset s valuation reserve of \$1.5 million, representing the portion of the Company s deferred tax asset that management has estimated is more likely than not to be realized, an increase of MTI Instruments yearly net income of \$1.6 million, a reduction of the yearly net loss of MTI Micro of \$2.2 million, and a reduction in the net loss attributed to non-controlling interests of \$900 thousand. These are a result of the factors discussed above.

Results of Operations for the Year Ended December 31, 2010 Compared to December 31, 2009.

Test and Measurement Instrumentation Segment

Product Revenue: Product revenue in our test and measurement instrumentation segment for the year ended December 31, 2010 increased by \$915 thousand, or 14.6%, in comparison to 2009, to \$7.2 million. As with the prior year, the US Air Force was the top customer for the segment; accounting for \$1.6 million, or 22.0%, of the total year revenue, as compared to \$1.2 million, or 19.0%, of the total revenue in 2009. The segment s top commercial customer in 2010 accounted for \$560 thousand, or 7.8%, of the annual revenue, as compared to the top commercial customer last year accounting for \$618 thousand, or 9.9%, of the total 2009 revenue.

Information regarding government contracts included in product revenue is as follows:

(Dollars in thousands)		Revenues for the							ıl tract ers	
			elve Mon		nded	Con	enue tract to		eived	
		December 31, Da							to Date December	
Contract ⁽¹⁾	Expiration	201	0	200	9		2010	31, 2		
\$2.3 million Air Force New PBS-4100 Systems	07/28/2010 (2)	\$	57	\$	513	\$	2,166	\$	2,166	
\$8.8 million Air Force Retrofit and Maintenance of PBS-4100 Systems	06/19/2008 (3)	\$		\$	50	\$	8,009	\$	8,009	
\$6.5 million Air Force Retrofit and Maintenance of PBS-4100 Systems	09/27/2014 (4)	\$	1,386	\$	439	\$	1,825	\$	1,828	

- (1) Contract values represent maximum potential values and may not be representative of actual results.
- (2) Date represents expiration of contract, including all three potential option extensions.
- (3) The contract expiration date has passed; however, one delivery order remains open under the contract.
- (4) Date represents expiration of contract, including all four potential option extensions.

Cost of Product Revenue: Cost of product revenue in our test and measurement instrumentation segment for the year ended December 31, 2010 increased in comparison to 2009 by \$265 thousand, or 9.9%, to \$2.9 million in conjunction with the aforementioned 14.6% increase in product revenue. Gross profit, as a percentage of product revenue, rose two points to 59% in 2010 due to a reduction in expense for potentially obsolete and slow-moving inventory.

Unfunded Research and Product Development Expenses: Unfunded research and product development expenses in our test and measurement segment for the year ended December 31, 2010 decreased by \$6 thousand, or 0.6%, to \$959 thousand from \$965 thousand in 2009. This decrease is attributable to lower personnel costs in the segment segment during the year, which were partially offset by increases in

material spending for new product development and existing product support.

Selling, General and Administrative Expenses: Selling, general and administrative expenses in our test and measurement segment increased for the year ended December 31, 2010 by \$162 thousand, or 8.2%, to \$1.98 million from \$1.82 million for 2009. This increase is primarily the result of additional staffing in the segment s sales and business development departments.

New Energy Segment

Funded Research and Development Revenue: Funded research and development revenue in our new energy segment decreased by \$810 thousand, or 40%, to \$1.23 million for the year ended December 31, 2010 from \$2.04 million for the year ended December 31, 2009. The decrease in revenue was primarily the result of the research and development performed under the DOE contract in 2009 for the commercialization of our fuel cell product, while billing in 2010 has been substantially less as we entered into the market test phase of the commercialization.

Information regarding our contracts included in funded research and development revenue is as follows:

Dollars in thousands)		Rever Year	nue for the	Reve Year	nue for the		
			Ended December 31,		d mber 31,	Reve Cont	enue tract to
Contract	Expiration (1)	2010		2009		Date	
\$2.99 million DOE ⁽²⁾	03/31/11	\$	944	\$	2,043	\$	2,987
\$296 thousand NYSERDA	12/31/10		290				290
Total		\$	1,234	\$	2,043	\$	3,277

⁽¹⁾ Dates represent expiration of contract, not date of final billing.

Funded Research and Product Development Expenses: Funded research and product development expenses in our new energy segment for the year ended December 31, 2010 decreased by \$1.56 million or 38% to \$2.54 million from \$4.1 million in 2009. This is a result of the majority of the work being performed in 2009 for the DOE contract, as discussed in funded research and development revenue above.

Unfunded Research and Product Development Expenses: Unfunded research and product development in our new energy segment decreased by \$26 thousand, or 7%, to \$358 thousand for the year ended December 31, 2010 compared to 2009. This decrease from the prior year was due to staff reductions and substantial cut backs in external development spending.

Selling, General and Administrative Expenses: Selling, general and administrative expenses in our new energy segment for the year ended December 31, 2010 increased by \$1.85 million, or 1,758%, to \$1.95 million in 2010 from \$105 thousand in 2009. This increase was primarily the result of stock option expense on MTI and MTI Micro Options awarded to employees increasing from \$428 thousand in 2009 to \$1.4 million in 2010 and a decrease in the allocation of costs to research and development.

Results of Consolidated Operations

Operating Loss: Operating loss for the year ended December 31, 2010 compared with the operating loss for the year ended December 31, 2009 increased by \$305 thousand to \$3.4 million, a 10% increase, as a result of the factors noted above.

Gain (loss) on Derivatives: We recorded a loss on derivative accounting of \$3 thousand for the year ended December 31, 2010 and a loss of \$29 thousand on derivative accounting for the year ended December 31, 2009. Both the 2010 loss and 2009 loss are the result of derivative treatment of the freestanding warrants issued to investors in conjunction with our December 2006 capital raise.

Income Tax (Expense) Benefit: Income tax benefit went from a benefit of \$208 thousand in 2009 to an expense of \$4 thousand for 2010. This is primarily the result of a reversal of an uncertain tax position in 2009 of \$194 thousand that was recorded in 2008 and settled in 2009. Our income tax rate for the year ended December 31, 2010 was 0%, while the income tax rate for the year ended December 31, 2009 was 6%. These tax rates were primarily the result of losses generated by operations, changes in the valuation allowance, state true-ups upon tax return filings, and permanent deductible differences for the derivative valuation.

The valuation allowance against our deferred tax assets at December 31, 2010 was \$27.8 million and at December 31, 2009 was \$26.4 million. We determined that it was more likely than not that the ultimate recognition of certain deferred tax assets would not be realized.

Net Losses Attributed to Non-Controlling Interests (of MTI Micro): The net loss attributed to non-controlling interests increased from \$265 thousand for 2009 to \$1.6 million in 2010. This is a result of the increase in the percentage of ownership of the non-controlling interest of MTI

⁽²⁾ The DOE contract was initially awarded for \$2.4 million, effective for January 2009 through March 31, 2010. An extension to this was granted in April 2010, increasing total funding to \$2.99 million and an expiration date of 3/31/2011. The DOE contract is a cost share contract.

Micro in 2010 due to additional equity contributions of \$1.9 million. In addition, the equity contributions of \$3.4 million in 2009 occurred in September 2009; thus 2010 includes a full year of losses for these additions.

Net Income (Loss): Net loss for the year ended December 31, 2010 was \$1.8 million compared to a net loss of \$3.1 million for 2009. This reduction in losses is a result of the factors discussed above.

Liquidity and Capital Resources

Several key indicators of our liquidity are summarized in the following table:

(Dollars in thousands)	Years ended December 31,						
	201	1	201	0	2009		
Cash and cash equivalents	\$	1,669	\$	1,118	\$	785	
Working capital		3,142		1,534		1,163	
Net income (loss) attributed to MTI		2,386		(1,758)		(3,099)	
Net cash provided by (used in) operating activities		67		(1,506)		(2,170)	
Purchase of property, plant and equipment		(175)		(47)		(7)	

The Company has historically incurred significant losses, the majority stemming from the direct methanol fuel cell product development and commercialization programs of MTI Micro, and had a consolidated accumulated deficit of \$120.1 million as of December 31, 2011. During 2011, the Company generated net income attributed to MTI of \$2.4 million and had working capital at December 31, 2011 of \$3.1 million, a \$1.6 million increase from \$1.5 million at December 31, 2010. This increase was primarily attributed to the reversal of a portion of the deferred tax asset s valuation reserve of \$1.5 million, representing the portion of the Company s deferred tax asset that management has estimated is more likely than not to be realized, the improved result of operations for MTI Instruments, a continued hold on expenses, and capital raised through the issuance of MTI Micro stock. The Company had an operating cash surplus of \$67 thousand in 2011 and currently has no debt. While it cannot be assured, management believes that MTI Instruments will continue to generate positive cash flows and be able to fund the Company s operations for at least the next twelve months.

Although MTI Micro continues to believe in the potential of its Mobion® based power solutions, operations have been suspended at MTI Micro until such time as market demand and other deciding factors, including obtaining additional external financing, the successful completion of customer trials, a new development program with a government agency, and/or a customer order, come to fruition. MTI Micro had cash and cash equivalents as of December 31, 2011 of \$110 thousand. Currently, MTI Micro has no employees and projects to spend between \$5 and \$10 thousand per month for operating activities including rent, preparing prototypes for customer demonstrations, minimal sales efforts, patent fees to keep its patent portfolio current and minimal consultant costs to perform these initiatives. MTI Micro will continue to seek additional capital from external sources to resume operations and fund future development, if any. If MTI Micro is unable to secure additional financing, a new development program or customer order, the MTI Micro board of directors will assess other options for MTI Micro, including the sale of MTI Micro s intellectual property portfolio and other assets.

During the year ended December 31, 2011, cash provided by operating activities was \$67 thousand, consisting of net income of \$1.6 million, non-cash expenses of \$(617) thousand (primarily including \$307 thousand for depreciation, \$661 thousand for stock based compensation, and a \$(1.5) million income tax benefit), and other changes in operating assets and liabilities of \$(964) thousand (primarily due to the increase in accounts receivable at year end). Cash used by investing activities for the year ended December 31, 2011 was \$163 thousand, comprised primarily of purchases of property, plant and equipment primarily for MTI Instruments related to computers and laboratory and demo equipment. We had no outstanding commitments for capital expenditures as of December 31, 2011. Cash provided by financing activities for the year ended December 31, 2011 was \$647 thousand consisting of capital raised through the issuance of MTI Micro common stock.

As of December 31, 2011, we had approximately \$1.7 million of cash and cash equivalents to fund our future operations. During the year ended December 31, 2011, our results of operations resulted in net income after the non-controlling interest allocation of \$2.4 million and cash provided by operating activities totaling \$67 thousand. We expect to spend approximately \$1.4 million in research and development on MTI Instruments products during 2012. We expect to continue funding our operations from current cash and cash equivalents, proceeds, if any, from additional debt or equity financings and government funding. We may also seek to supplement our resources through the sales of assets (including our investment in MTI Micro). Besides the line of credit at MTI Instruments, we have no other commitments for funding future needs of the organization at this time and such additional financing during 2012 may not be available to us on acceptable terms, if at all.

Line of Credit

On September 20, 2011, MTI Instruments entered into a working capital line of credit with First Niagara Bank, N.A. Pursuant to the Demand Grid Note, MTI Instruments may borrow from time to time up to \$400 thousand to support its working capital needs. The note is payable upon demand, and the interest rate on the note is equal to the prime rate with a floor of 4.0% per annum. The note is secured by a lien on all of the assets of MTI Instruments and is guaranteed by the Company. The line of credit is subject to a review date of June 30, 2012. Under the line of credit, MTI Instruments is required to hold a line balance of \$0 for 30 consecutive days out during each consecutive year. As of December 31, 2011, there were no amounts outstanding under the line of credit.

Backlog, Inventory and Accounts Receivable

At December 31, 2011, the Company s order backlog was \$861 thousand, compared to \$2.1 million at December 31, 2010. The backlog at December 31, 2010 was elevated by record high fourth quarter order activity that year.

Our inventory turnover ratios and average accounts receivable days sales outstanding for the years ended December 31, 2011 and 2010 and their changes are as follows:

	Years I Decemb		
	2011	2010	Change
Inventory turnover	4.0	3.7	.3
Average accounts receivable days sales outstanding	42	42	

The positive increase in inventory turnover is driven by average inventory balances increasing 27% on a 43% higher annual sales volume in 2011 as well as better managed production quantities and inventory purchases over the last twelve months.

The average accounts receivable days sales outstanding remained consistent in 2011 compared with 2010.

Off-Balance Sheet Arrangements

There are no off balance sheet arrangements of the Company.

Contractual Obligations

We have entered into various agreements with non-cancelable terms that result in contractual payment obligations in future years. These contracts include manufacturing, laboratory and office facility lease agreements as well as purchase commitments for general operations of the Company. The following table summarizes cash payments that we are committed to make under the existing terms of contracts to which we are a party as of December 31, 2011. This table does not include contingencies.

	Less	3					More		
Contractual Payment Obligations	Tha	n 1	1-3		3-5		Than 5		
(in thousands)	Year	r	Yea	ırs	Yea	ırs	Years	Tot	tal
Operating lease obligations	\$	27	\$	564	\$	266	\$	\$	857
Purchase obligations		376		14					390
Total Contractual Payment Obligations	\$	403	\$	578	\$	266	\$	\$	1,247

Market Risk

Market risk is the risk that changes in market conditions will adversely affect earnings or cashflow. We categorize our market risks as interest rate risk and credit risk. Immediately below are detailed descriptions of the market risks and explanations as to how each of these risks are managed.

Interest Rate Risk. Interest rate risk is the risk that changes in interest rates could adversely affect earnings or cashflows. The Company s cash equivalents are sensitive to changes in interest rates. Interest rate changes would result in a change in interest income due to the difference between the current interest rates on cash. Interest rate risk sensitivity analysis is used to measure interest rate risk by computing estimated changes in cashflow as a result of assumed changes in market interest rates. A 10% decrease in 2011 interest rates would be immaterial to the Company s consolidated financial statements.

Credit Risk. Credit risk is the risk of loss we would incur if counterparties fail to perform their contractual obligations. Financial instruments that subject the Company to concentrations of credit risk principally consist of cash equivalents, trade accounts receivable and unbilled contract costs.

Our trade accounts receivable and unbilled contract costs and fees are primarily from sales to commercial customers, the U.S. government and state agencies. We do not require collateral and have not historically experienced significant credit losses related to receivables or unbilled contract costs and fees from individual customers or groups of customers in any particular industry or geographic area.

Our deposits are primarily in cash and deposited in commercial banks and investment companies. Credit exposure to any one entity is limited by Company policy.

Critical Accounting Policies and Significant Judgments and Estimates

The following discussion and analysis of our financial condition and results of operations is based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the United States of America. Note 2 of the Consolidated Financial Statements in Part II, Item 8 of this Annual Report on Form 10-K includes a summary of our most significant accounting policies. The preparation of these consolidated financial statements requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenue, expenses, and related disclosure of assets and liabilities. On an ongoing basis, we evaluate our estimates and judgments, including those related to revenue recognition, inventories, income taxes, share-based compensation and derivatives. We base our estimates on historical experience and on various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. Periodically, we review our critical accounting estimates with the Audit Committee of our Board of Directors.

The significant accounting policies that we believe are most critical to aid in fully understanding and evaluating our consolidated financial statements include the following:

Revenue Recognition. We recognize product revenue when there is persuasive evidence of an arrangement, delivery of the product to the customer or distributor has occurred, at which time title generally is passed to the customer or distributor, and we have determined that collection of a fixed fee is probable, all of which occur upon shipment of the product. If the product requires installation to be performed by us, all revenue related to the product is deferred and recognized upon the completion of the installation.

We recognize revenue from development contracts based upon the relationship of actual costs to estimated costs to complete the contract. These types of contracts typically provide development services to achieve a specific scientific result relating to direct methanol fuel cell technology. Some of these contracts require us to contribute to the development effort. The customers for these contracts are commercial customers and various state and federal government agencies. While government agencies are providing revenue, we do not expect the government to be a significant end user of the resulting products. Therefore, we do not reduce funded research and product development expense by the funding received. When it appears probable that estimated costs will exceed available funding on fixed price contracts and we are not successful in securing additional funding, we record the estimated additional expense before it is incurred.

We apply accounting guidance on revenue recognition in the evaluation of commercially funded fuel cell research and prototype agreements to determine when to properly recognize income. Payments received in connection with commercial research and prototype agreements are deferred and recognized on a straight-line basis over the term of the agreement for service-related payments. For milestone and prototype delivery payments, if and when achieved, revenue is deferred and recognized on a straight-line basis over the remaining term of the agreement. When revenue qualifies for recognition it will be recorded as funded research and development revenue. The costs associated with research and prototype-producing activities are expensed as incurred. Expenses in an amount equal to revenue recognized are reclassified from unfunded research and product development to funded research and product development.

Inventory. Inventory is valued at the lower of cost or the current estimated market value of the inventory. We periodically review inventory quantities on hand and record a provision for excess or obsolete inventory based primarily on our estimated forecast of product demand, as well as based on historical usage. Demand and usage for products and materials can fluctuate significantly. A significant decrease in demand for our products could result in a short-term increase in the cost of inventory purchases and an increase of excess inventory quantities on hand. Therefore, although we make every effort to assure the accuracy of our forecasts of future product demand, any significant unanticipated changes in demand could have a significant impact on the value of our inventory and our reported operating results.

Share-Based Payments. We grant options to purchase our common stock and award restricted stock to our employees and directors under our equity incentive plans. The benefits provided under these plans are share-based payments subject to the appropriate accounting provisions regarding Share-Based Payments. Effective January 1, 2006, we use the fair value method of accounting with the modified prospective application, which provides for certain changes to the method for valuing share-based compensation. The valuation provisions apply to new awards and to awards that are outstanding on the effective date and subsequently modified. Under the modified prospective application, prior periods are not revised for comparative purposes. Share-based compensation expense recognized under these accounting methods for the year ended December 31, 2011 was \$661 thousand. At December 31, 2011, total unrecognized estimated compensation expense related to non-vested awards granted prior to that date was \$104 thousand, which is expected to be recognized over a weighted average period of .87 years.

We estimate the fair value of share-based awards on the date of grant using a Black-Scholes option-pricing model. The determination of the fair value of share-based payment awards on the date of grant using an option-pricing model is affected by our stock price as well as assumptions regarding a number of complex and subjective variables. These variables include our expected stock price volatility over the term of the awards, actual and projected employee stock option exercise behaviors, risk-free interest rate, and expected dividends.

If factors change and we employ different assumptions for the accounting methodology during future periods, the compensation expense that we record may differ significantly from what we have recorded in the current period. Therefore, we believe it is important for investors to be aware of the high degree of subjectivity involved when using option-pricing models to estimate share-based compensation. Option-pricing models were developed for use in estimating the value of traded options that have no vesting or hedging restrictions, are fully transferable and do not cause dilution. Because our share-based payments have characteristics significantly different from those of freely traded options, and because changes in the subjective input assumptions can materially affect our estimates of fair values, in our opinion, existing valuation models, including the Black-Scholes Option Pricing model, may not provide reliable measures of the fair values of our share-based compensation. Consequently, there is a risk that our estimates of the fair values of our share-based compensation awards on the grant dates may bear little resemblance to the intrinsic values realized upon the exercise, expiration, cancellation, or forfeiture of those share-based payments in the future. Certain share-based payments, such as employee stock options, may expire worthless or otherwise result in zero intrinsic value as compared to the fair values originally estimated on the grant date and expensed in our financial statements. Alternatively, value may be realized from these instruments that are significantly in excess of the fair values originally estimated on the grant date and expensed in our financial statements. There currently is neither a market-based mechanism nor other practical application to verify the reliability and accuracy of the estimates stemming from these valuation models, nor a way to compare and adjust the estimates to actual values. Although the fair value of employee share-based awards is determined using a qualified option-pricing model, that value may not be indicative of the fair value observed in a willing buyer/willing seller market transaction. Estimates of share-based compensation expenses are significant to our financial statements, but these expenses are based on the aforementioned option valuation model and will never result in the payment of cash by us.

Theoretical valuation models and market-based methods are evolving and may result in lower or higher fair value estimates for share-based compensation. The timing, readiness, adoption, general acceptance, reliability, and testing of these methods is uncertain. Sophisticated mathematical models may require voluminous historical information, modeling expertise, financial analyses, correlation analyses, integrated software and databases, consulting fees, customization, and testing for adequacy of internal controls.

For purposes of estimating the fair value of stock options granted during the twelve months ended December 31, 2011 using the Black-Scholes model, we used the historical volatility of our stock for the expected volatility assumption input to the Black-Scholes model, consistent with the accounting guidance. The risk-free interest rate is based on the risk-free zero-coupon rate for a period consistent with the expected option term at the time of grant. We do not currently pay nor do we anticipate paying dividends, but we are required to assume a dividend yield as an input to the Black-Scholes model. As such, we use a zero dividend rate. The expected option term is estimated using both historical term measures and projected termination estimates.

Income Taxes. As part of the process of preparing our consolidated financial statements, we calculate income taxes for each of the jurisdictions in which we operate. This involves estimating actual current taxes due together with assessing temporary differences resulting from differing treatment for tax and accounting purposes that are recorded as deferred tax assets and liabilities. We periodically evaluate deferred tax assets, net operating loss carryforwards and tax credit carryforwards to determine their recoverability based primarily on our ability to generate future taxable income.

Significant management judgment is required in determining our provision for income taxes, our deferred tax assets and liabilities, and any valuation allowance recorded against our net deferred tax assets. We considered all available evidence, both positive and negative, such as historical levels of income and future forecasts of taxable income amongst other items in determining whether a full or partial release of our valuation allowance is required. In addition, our assessment requires us to schedule future taxable income in accordance with accounting standards that address income taxes to assess the appropriateness of a valuation allowance, which further requires the exercise of significant management judgment.

As a result of our analyses in 2011, we released a portion of our valuation allowance against our deferred tax assets. The partial release of the valuation allowance caused an incremental tax benefit of \$1.5 million to be recognized in the fourth quarter of 2011. For our analysis, we projected our pre-tax earnings utilizing a combination of historical and projected results, taking into consideration existing levels of permanent differences, non-deductible expense and the reversal of significant temporary differences. We need to generate approximately \$225 thousand of taxable income in each year over the next twenty years to ensure the realizability of the \$1.5 million of deferred tax assets recorded on our balance sheet at December 31, 2011. In the event that actual results differ from these estimates or we adjust these estimates in future periods, we may need to adjust the recorded valuation allowance, which could materially impact our financial position and results of operations. The remaining valuation allowance at December 31, 2011 is \$19.8 million and relates primarily to net operating losses and stock based compensation. We will continue to evaluate the ability to realize our deferred tax assets and related valuation allowance on a quarterly basis.

Our Federal net operating loss carryforwards as of December 31, 2011 were \$66.9 million. Of these, \$50.4 are MTI s and \$16.5 are MTI MicroFuel Cells. However, approximately \$14.6 million of MFC s NOLs have been reduced due to limitations caused by Section 382 ownership changes. Of the remaining NOL s, \$4.1 million expire in 2020, with the remainder expiring through 2031.

We account for taxes in accordance with the asset and liability method of accounting for income taxes. Under this method, we must recognize the tax benefit from an uncertain tax position only if it is more likely than not that the tax position will be sustained on examination by the taxing authorities, based on the technical merits of the position. The tax benefits recognized in the financial statements from such a position are measured based on the largest benefit that has a greater than 50% likelihood of being realized upon ultimate resolution. The impact of our reassessment of our tax positions for these standards did not have a material impact on our results of operations, financial condition, or liquidity.

Derivative Instruments. We account for derivative instruments and embedded derivative instruments in accordance with the accounting standard for Accounting for Derivative Instruments and Hedging Activities, as amended. The amended standard requires an entity to recognize all derivatives as either assets or liabilities in the statement of financial position and measure these instruments at fair value. Fair value is estimated using the Black-Scholes Pricing model. We also follow accounting standards for the Accounting for Derivative Financial Instruments Indexed to and Potentially Settled in, a Company s Own Stock, which requires freestanding contracts that are settled in a company s own stock, including common stock warrants, to be designated as an equity instrument, asset or a liability. Under these provisions a contract designated as an asset or a liability must be carried at fair value, with any changes in fair value recorded in the results of operations. A contract designated as an equity instrument can be included in equity, with no fair value adjustments required.

The derivatives are valued on a quarterly basis using the Black-Scholes Pricing model. Significant assumptions used in the valuation included exercise dates, closing prices for our common stock, volatility of our common stock, and a proxy risk-free interest rate. Gains (losses) on derivatives are included in Gain (loss) on derivatives in our consolidated statement of operations.

Recent Accounting Pronouncements

A discussion of recently adopted and new accounting pronouncements is included in Note 2 of the Consolidated Financial Statements in Part II, Item 8 of this Annual Report on Form 10-K.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

The Company is exposed to market risk from changes in interest rates and credit risk, which could affect its future results of operations and financial condition. We manage our exposure to these risks through regular operating and financing activities. See Market Risk, included in Part II, Item 7 above, Management s Discussion and Analysis of Financial Condition and Results of Operations.

Item 8: Financial Statements and Supplementary Data

The Company s Consolidated Financial Statements filed herewith beginning at page F-1 are incorporated in this Item 8 by reference.

Selected Quarterly Financial Data

(Unaudited and in thousands except per share amounts) 2011	Q1		Q2		Q3		Q4	
Product revenue	\$	2,539	\$	2,140	\$	2,326	\$	3,275
Funded research and development revenue		13						
Gross profit product revenue		1,600		1,290		1,465		2,145
Gross loss funded research and development		(12)						
Net income (loss) attributed to MTI	\$	194	\$	(97)	\$	(101)	\$	2,390
Net Income (Loss) per Share (Basic and Diluted):								
Net income (loss) per share attributed to MTI	\$	0.04	\$	(0.02)	\$	(0.02)	\$	0.45

Selected Quarterly Financial Data

(Unaudited and in thousands except per share amounts) 2010	Q1		Q2		Q3		Q4	
Product revenue	\$	1,267	\$	1,627	\$	1,646	\$	2,639
Funded research and development revenue		357		418		334		125
Gross profit product revenue		723		901		984		1,641
Gross loss funded research and development		(413)		(409)		(203)		(279)
Net (loss) income attributed to MTI	\$	(1,234)	\$	(437)	\$	(366)	\$	279
Net (Loss) Income per Share (Basic and Diluted):								
Net (loss) income per share attributed to MTI	\$	(.26)	\$	(.09)	\$	(.08)		\$.06

As a result of rounding and quarterly calculations, the sum of the quarters may not agree to the year to date results.

Item 9: Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

None.

Item 9A: Controls and Procedures

(a) Evaluation of Disclosure Controls and Procedures

Our management, with the participation of our chief executive officer and chief financial officer, evaluated the effectiveness of MTI s disclosure controls and procedures as of December 31, 2011. The term disclosure controls and procedures, as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act, means controls and other procedures of a company that are designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC s rules and forms. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company s management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. We recognize that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance of achieving their objectives and we necessarily apply our judgment in evaluating the cost-benefit relationship of possible controls and procedures. Based on the valuation of our disclosure controls and procedures were effective at the reasonable assurance level.

(b) Management s Report on Internal Control Over Financial Reporting

Management of our Company is responsible for establishing and maintaining adequate internal control over financial reporting, as that term is defined in Exchange Act Rules 13a-15(f) and 15d-15(f). Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of our management, including the principal executive officer and principal financial officer, we conducted an evaluation of the effectiveness of our internal control over financial reporting using the criteria set forth in *Internal Control Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on our evaluation using the criteria set forth in *Internal Control Integrated Framework*, Management has concluded that our internal control over financial reporting was effective as of December 31, 2011.

This annual report does not include an attestation report of our registered public accounting firm regarding internal control over financial reporting. Our report was not subject to attestation by our independent registered public accounting firm pursuant to rules of the SEC that permit us to provide only Management s Report in this annual report.

/s/ Peng K. Lim Chief Executive Officer (Principal Executive Officer) /s/ Frederick W. Jones Chief Financial Officer (Principal Financial Officer)

(c) Changes in Internal Control over Financial Reporting

There have been no changes in our internal control over financial reporting, as such term is defined in Rules 13a-15(f) and 15d-15(1) under the Exchange Act, during our fiscal quarter ended December 31, 2011 that have materially affected, or are reasonable likely to materially affect our internal control over financial reporting.

Item 9B: Other Information

No information was required to be disclosed in a current Report on Form 8-K during the fourth quarter of the fiscal year covered by this Annual Report on Form 10-K which has not been reported.

PART III

Item 10: Directors, Executive Officers and Corporate Governance

(a) Directors

Incorporated herein by reference is the information appearing under the captions Information about our Directors and Compliance with Section 16(a) of the Securities Exchange Act of 1934 in our definitive Proxy Statement for our 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

(b) Executive Officers

Incorporated herein by reference is the information appearing under the captions Executive Officers and Compliance with Section 16(a) of the Securities Exchange Act of 1934 in our definitive Proxy Statement for our 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

Incorporated herein by reference is the information appearing under the caption Board of Director Meetings and Committees Audit Committee in our definitive Proxy Statement for our 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

<u>Code of Ethics</u>: We have adopted a Code of Ethics for employees, officers and directors. The Code of Ethics is intended to comply with Item 406 of Regulation S-K of the Securities Exchange Act of 1934. A copy may be obtained at no charge by written request to the attention of our Secretary at 325 Washington Avenue Extension, Albany, New York 12205. A copy of the Code of Ethics is also available on our website at http://www.mechtech.com under Investor Relations, Corporate Governance.

Item 11: Executive Compensation

Incorporated herein by reference is the information appearing under the caption Executive Compensation in the Company s definitive Proxy Statement for our 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

Item 12: Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

Incorporated herein by reference is the information appearing under the caption Principal Stockholders in our definitive Proxy Statement for our 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

Equity Compensation Plans

As of December 31, 2011, we have three equity compensation plans, each of which was originally approved by our stockholders; the Mechanical Technology, Incorporated 1996 Stock Incentive Plan (the 1996 Plan), 1999 Employee Stock Incentive Plan (the 1999 Plan) and 2006 Equity Incentive Plan (the 2006 Plan). The 2006 Plan was amended and restated and approved by our Board of Directors in 2011 and 2009. We refer collectively to these as the Plans. See Note 13 of the Consolidated Financial Statements in Part II, Item 8 of this Annual Report on Form 10-K

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The following table presents information regarding these plans as of December 31, 2011:

	Number of Securities To Be	Weighted Average	Number of Securities Remaining Available for Future Issuance Under
	Issued Upon Exercise of	Exercise Price of	Equity Compensation Plans
	Outstanding	Outstanding Options, Warrants,	(excluding securities reflected in
	Options, Warrants, Rights(1)	Rights	column (a))
Plan Category Equity compensation plans	(a)	(b)	(c)
approved by security holders	348,513	\$ 21.24	-0-
Equity compensation plans			
not approved by security holders	448,924	2.28	261,601

⁽¹⁾ Under the 1996, 1999 and 2006 Plans, the securities available under the Plans for issuance and issuable pursuant to exercises of outstanding options may be adjusted in the event of a change in outstanding stock by reason of stock dividend, stock splits, reverse stock splits, etc.

Item 13: Certain Relationships and Related Transactions, and Director Independence

Incorporated herein by reference is the information appearing under the caption Certain Relationships and Related Transactions in our definitive Proxy Statement for the 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

Item 14: Principal Accounting Fees and Services

Incorporated herein by reference is the information appearing under the caption Independent Accountants in our definitive Proxy Statement for the 2012 Annual Meeting of Stockholders to be filed with the SEC on or before April 29, 2012.

PART IV

Item 15: Exhibits, Financial Statement Schedules

15(a) (1) Financial Statements: The financial statements filed herewith are set forth on the Index to Consolidated Financial Statements on page F-1 of the separate financial section which accompanies this Report, which is incorporated herein by reference.

15(a) (2) Financial Statement Schedules: The following Consolidated Financial Statement Schedule for the years ended December 31, 2011, 2010, and 2009 is included pursuant to Item 15(d):

Report of Independent Registered Public Accounting Firm on Financial Statements Schedule; Schedule II - Valuation and Qualifying Accounts.

All other financial statement schedules not listed have been omitted because they are either not required, not applicable, or the information has been included elsewhere in the consolidated financial statements or notes thereto.

15(a) (3) Exhibits: The exhibits listed in the Exhibit Index below are filed as part of this Annual Report on Form 10-K.

Exhibit	
Number	Description
3.1	Certificate of Incorporation of the registrant, as amended and restated (Incorporated by reference from Exhibit 3.1 of the Company s Form 10-K Report for the year ended December 31, 2007).
3.2	Certificate of Amendment of the Certificate of Incorporation of the registrant (Incorporated by reference from Exhibit 3.2 of the Company s Form 8-K Report filed May 15, 2008).
3.3	Amended and Restated By-Laws of the registrant (Incorporated by reference from Exhibit 3.3 of the Company s Form 8-K Report filed December 14, 2007).
10.1	Mechanical Technology, Incorporated 1996 Stock Incentive Plan (Incorporated by reference from Appendix A of the Company s Definitive Proxy Statement Schedule 14A filed November 19, 1996).*
10.2	Mechanical Technology, Incorporated 1999 Employee Stock Incentive Plan (Incorporated by reference from Exhibit A of the Company s Proxy Statement Schedule 14A filed February 13, 1999).*
10.3	Lease dated August 10, 1999 between Carl E. Touhey and Mechanical Technology, Inc. (Incorporated by reference from Exhibit 10.38 of the Company s Form 10-K Report for the fiscal year ended September 30, 1999).
10.4	Lease dated April 2, 2001 between Kingfisher, LLC and Mechanical Technology, Inc. (Incorporated by reference from Exhibit 10.43 of the Company s Form 10-K Report for the fiscal year ended September 30, 2001).
10.5	First Amendment to lease dated March 13, 2003 between Kingfisher, LLC and Mechanical Technology, Inc. (Incorporated by reference from Exhibit 10.44 of the Company s Form 10-K Report for the year ended December 31, 2002).
10.6	Second Amendment to lease dated December 12, 2005 between Kingfisher, LLC and Mechanical Technology, Incorporated (Incorporated by reference from Exhibit 10.132 of the Company s Form 8-K Report filed December 13, 2005).
10.7	Employment Agreement dated May 4, 2006 between Peng K. Lim and Mechanical Technology, Incorporated (Incorporated by reference from Exhibit 10.139 of the Company s Form 8-K Report filed May 9, 2006).*
10.8	Form of Restricted Stock Agreement for the 1996 and 1999 Mechanical Technology, Inc. Stock Incentive Plans (Incorporated by reference from Exhibit 10.140 of the Company s Form 8-K Report filed May 18, 2006).*
10.9	Third Amendment to lease dated August 7, 2006 between Kingfisher, LLC and Mechanical Technology, Incorporated (Incorporated by reference from Exhibit 10.142 of the Company s Form 10-Q Report for the quarter ended June 30, 2006).
10.10	Fourth Amendment to lease dated August 6, 2007 between Kingfisher LLC and Mechanical Technology, Incorporated (Incorporated by reference from Exhibit 10.148 of the Company s Form 10-Q Report for the quarter ended June 30, 2007).

10.11	Employment Agreement dated April 3, 2006 between James K. Prueitt and MTI MicroFuel Cells Inc (Incorporated by reference from Exhibit 10.151 of the Company s Form 10-K Report for the year ended December 31, 2007).*
10.12	Form of Convertible Note and Warrant Purchase Agreement dated September 18, 2008 (Incorporated by reference from Exhibit 10.153 of the Company s Form 10-Q Report for the quarter ended September 30, 2008).
10.13	Amended and Restated Employment Agreement dated December 30, 2008 between James K. Prueitt and MTI MicroFuel Cells Inc. (Incorporated by reference from Exhibit 10.154 of the Company s Form 10-K Report for the year ended December 31, 2008).*
	(medipolated by locations 18th Edition 18th Company of State 18th 18th 18th Edition 18th 2000)
10.14	Amended and Restated Employment Agreement dated December 31, 2008 between Peng K. Lim and Mechanical Technology, Inc. (Incorporated by reference from Exhibit 10.155 of the Company s Form 10-K Report for the year ended December 31, 2008).*
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10.15	Amendment No. 1 to Convertible Note and Warrant Purchase Agreement, Security Agreement and Secured Convertible Promissory Notes and Consent dated February 20, 2009 (Incorporated by reference from Exhibit 10.158 of the Company s Form 10-K Report for the year ended December 31, 2008).
10.16	Letter Agreement dated February 24, 2009 between Peng K. Lim and Mechanical Technology, Inc. (Incorporated by reference from Exhibit 10.159 of the Company s Form 10-K Report for the year ended December 31, 2008).*
10.17	Letter Agreement dated February 24, 2009 between James K. Prueitt and MTI MicroFuel Cells Inc. (Incorporated by reference from Exhibit 10.160 of the Company s Form 10-K Report for the year ended December 31, 2008).*
10.18	Amendment No. 2 to Convertible Note and Warrant Purchase Agreement, Security Agreement and Secured Convertible Promissory Notes and Consent dated April 15, 2009 (Incorporated by reference from Exhibit 10.1 of the Company s Form 10-Q Report for the quarter ended June 30, 2009).
10.19	Secured Convertible Promissory Note Negotiated Conversion Agreement, dated December 9, 2009, by and among the Company, MTI Micro and the Bridge Investors (Incorporated by reference from Exhibit 10.1 of the Company s Form 8-K Report filed December 15, 2009).
10.20	Form of MTI Micro Common Stock Purchase Warrant (Incorporated by reference from Exhibit 10.2 of the Company s Form 8-K Report filed December 15, 2009).
10.21	Mechanical Technology, Incorporated Amended and Restated 2006 Equity Incentive Plan (Incorporated by reference from Exhibit 10.1 of the Company s Form S-8 Registration Statement filed September 18, 2009).*
10.22	Fifth Amendment of lease dated March 31, 2009 by and between Kingfisher, LLC and Mechanical Technology, Incorporated (Incorporated by reference from Exhibit 10.165 of the Company s Form 10-K Report for the year ended December 31, 2009).
10.23	Amendment No. 1 to Lease Agreement Between Mechanical Technology Inc. and Carl E. Touhey dated September 29, 2009 (Incorporated by reference from Exhibit 10.166 of the Company s Form 10-K Report for the year ended December 31, 2009).
10.24	MTI MicroFuel Cells Inc. 2009 Stock Plan (Incorporated by reference from Exhibit 10.167 of the Company s Form 10-K Report for the year ended December 31, 2009).*
10.25	Common Stock and Warrant Purchase Agreement, dated January 11, 2010, by and among MTI MicroFuel Cells Inc. and Counter Point Ventures Fund II, L.P. (Incorporated by reference from Exhibit 10.1 of the Company s Form 8-K Report filed January 14, 2010).
10.26	Form of MTI Micro Common Stock Warrant (Incorporated by reference from Exhibit 10.2 of the Company s Form 8-K Report filed January 14, 2010).
10.27	Seventh Amendment to Lease Agreement by and between Kingfisher, LLC and Mechanical Technology, Incorporated (Incorporated by reference from Exhibit 10.168 of the Company s Form 10-Q Report for the quarter ended June 30, 2010).
10.28	Amendment No. 1, dated February 9, 2011, to the Common Stock and Warrant Purchase Agreement, dated January 11, 2010, by and between MTI MicroFuel Cells Inc. and Counter Point Ventures Fund II, L.P. (Incorporated by reference from Exhibit 10.1 of the Company s Form 8-K Report filed February 11, 2011).
10.29	Form of MTI Micro Common Stock Warrant (Incorporated by reference from Exhibit 10.2 of the Company s Form 8-K Report filed February 11, 2011).
10.30	Lease Extension and Modification Agreement dated April 19, 2011, between Kingfisher, LLC and MTI MicroFuel Cells, Inc. (Incorporated by reference from Exhibit 10.19 of the Company s Form 10-Q Report for the quarter ended March 31, 2011).
10.31	Mechanical Technology, Incorporated Amended and Restated 2006 Equity Incentive Plan (Incorporated by reference from Exhibit 10.1 of the Company s Form S-8 Registration Statement (File No. 333-175406) filed July 8, 2011).*
10.32	Form of Restricted Stock Agreement for Mechanical Technology, Incorporated Amended and Restated 2006 Equity Incentive Plan (Incorporated by reference from Exhibit 10.2 of the Company s Form 8-K Report filed July 11, 2011).*
10.33	Lease Extension and Modification Agreement II dated July 18, 2011, between Kingfisher, LLC and MTI MicroFuel Cells, Inc. (Incorporated by reference from Exhibit 10.20 of the Company s Form 10-Q Report for the quarter ended June 30, 2011).
10.34	

	Amendment No. 2, dated September 23, 2011, to the Common Stock and Warrant Purchase Agreement, dated January 11, 2010, as amended February 9, 2011, by and between MTI MicroFuel Cells Inc. and Counter Point Ventures Fund II, L.P. (Incorporated by reference from Exhibit 10.1 of the Company s Form 8-K Report filed September 28, 2011).
10.35	Supplemental Lease Extension and Modification Agreement dated September 29, 2011, between Kingfisher, LLC and MTI MicroFuel Cells, Inc. (Incorporated by reference from Exhibit 10.1 of the Company s Form 10-Q Report for the quarter ended September 30, 2011).
10.36	Demand Grid Note dated September 20, 2011 between MTI Instruments, Inc. and First Niagara Bank, N.A. (Incorporated by reference from Exhibit 10.2 of the Company s Form 10-Q Report for the quarter ended September 30, 2011).
10.37	Guaranty Agreement dated September 20, 2011 between Mechanical Technology, Incorporated and First Niagara Bank, N.A. (Incorporated by reference from Exhibit 10.3 of the Company s Form 10-Q Report for the quarter ended September 30, 2011).
10.38	Security Agreement dated September 20, 2011 between MTI Instruments, Inc. and First Niagara Bank, N.A. (Incorporated by reference from Exhibit 10.4 of the Company's Form 10-Q Report for the quarter ended September 30, 2011).

	14.1	Code of Ethics (Incorporated by reference from Exhibit 14.1 of the Company s Form 10-K Report for the year ended December 31, 2005).
	21	Subsidiaries of the Registrant
	23.1	Consent of Independent Registered Public Accounting Firm PricewaterhouseCoopers LLP.
	31.1	Certification of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
	31.2	Certification of Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002
	32.1	Certification of Chief Executive Officer Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
	32.2	Certification of Chief Financial Officer Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
All		uibits for which no other filing information is given are filed herewith.

^{*} Represents management contract or compensation plan or arrangement.

Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

MECHANICAL TECHNOLOGY, INCORPORATED

Date: March 27, 2012 By: /s/ Peng K. Lim

Peng K. Lim

Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature Title Date

/s/ Peng K. Lim Chairman, Chief Executive Officer,

Peng K. Lim (Principal Executive Officer and Director) March 27, 2012

<u>/s/ Frederick W. Jones</u> Chief Financial Officer and Secretary

Frederick W. Jones (Principal Financial and Accounting Officer) March 27, 2012

/s/ Thomas J. Marusak Director

Thomas J. Marusak March 27, 2012

/s/ William P. Phelan Director

William P. Phelan March 27, 2012

/s/ E. Dennis O Connor Director

E. Dennis O Connor March 27, 2012

/s/ Walter L. Robb Director

Dr. Walter L. Robb March 27, 2012

Report of Independent Registered Public Accounting Firm on Financial Statement Schedule

To the Board of Directors of Mechanical Technology, Incorporated:

Our audits of the consolidated financial statements referred to in our report dated March 27, 2012 appearing on page F-2 of this Form 10-K of Mechanical Technology, Incorporated also included an audit of the financial statement schedule listed in Item 15(a)(2) of this Form 10-K. In our opinion, this financial statement schedule present fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements.

/s/PricewaterhouseCoopers LLP

Albany, New York March 27, 2012

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES VALUATION AND QUALIFYING ACCOUNTS (DOLLARS IN THOUSANDS)

	Balance at Beginning of Period		Additions Charged to Costs and Expenses		Addition		D.I.			
					Charged to Other Accounts D			Balance at End o		
Description							Deductions Period			
Allowance for doubtful accounts (accounts receivable) for th	e years ended:									
December 31, 2011	\$		\$		\$		\$		\$	
December 31, 2010	\$	92	\$		\$		\$	92	\$	
December 31, 2009	\$		\$	92	\$		\$		\$	92

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

Report of Independent Registered Public Accounting Firm F-2	
Consolidated Financial Statements:	
Balance Sheets as of December 31, 2011 and 2010	
Statements of Operations for the Years Ended December 31, 2011, 2010, and 2009 F-4	
Statements of Stockholders Equity and Comprehensive Income (Loss) for the	
Years Ended December 31, 2011, 2010, and 2009 F-5	
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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of Mechanical Technology, Incorporated:

We have audited the accompanying consolidated balance sheets and the related consolidated statements of operations, consolidated statements of stockholder's equity and comprehensive (loss) income, and consolidated statements of cash flows of Mechanical Technology, Incorporated and its subsidiaries as of December 31, 2011 and 2010, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2011. These financial statements are the responsibility of the Company s management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of Mechanical Technology Incorporated at December 31, 2011 and 2010, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2011 in conformity with accounting principles generally accepted in the United States of America.

/s/ PricewaterhouseCoopers LLP Albany, New York March 27, 2012

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES CONSOLIDATED BALANCE SHEETS

December 31, 2011 and 2010

(In thousands)		December 31,			
	2011		2010		
Assets					
Current Assets:					
Cash and cash equivalents	\$	1,669	\$	1,118	
Accounts receivable		1,881		1,086	
Inventories		957		844	
Deferred income taxes, net		20			
Prepaid expenses and other current assets		102		128	
Total Current Assets		4,629		3,176	
Deferred income taxes, net		1,515			
Property, plant and equipment, net		258		425	
Total Assets	\$	6,402	\$	3,601	
Liabilities and Stockholders Equity					
Current Liabilities:					
Accounts payable	\$	191	\$	255	
Accrued liabilities		1,238		1,273	
Deferred revenue		58		21	
Derivative liability				73	
Income taxes payable				20	
Total Current Liabilities		1,487		1,642	
Commitments and Contingencies (Note 16)					
Stockholders Equity:					
Common stock, par value \$0.01 per share, authorized 75,000,000;					
6,259,975 issued in 2011 and 5,776,750 issued in 2010		63		58	
Paid-in-capital		135,389		134,733	
Accumulated deficit		(120,097)		(122,483)	
Common stock in treasury, at cost, 1,005,092 shares in both 2011 and 2010		(13,754)		(13,754)	
Total MTI stockholders equity (deficit)		1,601		(1,446)	
Non-controlling interest		3,314		3,405	
Total Stockholders Equity		4,915		1,959	
Total Liabilities and Stockholders Equity	\$	6,402	\$	3,601	

The accompanying notes are an integral part of the consolidated financial statements.

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF OPERATIONS

For the Years Ended December 31, 2011, 2010, and 2009

(In thousands, except per share amounts)	Years Ended December 31,					
	2011		2010)	2009	
Product revenue	\$	10,280	\$	7,179	\$	6,263
Funded research and development revenue		13		1,234		2,043
Total revenue		10,293		8,413		8,306
Operating costs and expenses:						
Cost of product revenue		3,781		2,930		2,665
Research and product development expenses:						
Funded research and product development		25		2,538		4,095
Unfunded research and product development		1,441		1,317		1,349
Total research and product development expenses		1,466		3,855		5,444
Selling, general and administrative expenses		4,994		5,020		3,284
Operating income (loss)		52		(3,392)		(3,087)
Interest expense						(222)
Loss on extinguishment of debt						(232)
Gain (loss) on derivatives		73		(3)		(29)
Other (expense) income, net		(25)		3		(2)
Income (loss) before income taxes and non-controlling interest		100		(3,392)		(3,572)
Income tax benefit (expense)		1,548		(4)		208
Net income (loss), net of tax		1,648		(3,396)		(3,364)
Plus: Net loss attributed to non-controlling interest		738		1,638		265
Net income (loss) attributed to MTI	\$	2,386	\$	(1,758)	\$	(3,099)
Net income (loss) per share attributable to MTI (Basic and Diluted)	\$	0.48	\$	(0.37)	\$	(0.65)
Weighted average shares outstanding (Basic and Diluted)		5,001,934		4,771,658		4,771,658

The accompanying notes are an integral part of the consolidated financial statements.

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF STOCKHOLDERS EQUITY AND COMPREHENSIVE (LOSS) INCOME

For the Years Ended December 31, 2011, 2010, and 2009

	Common S	tocl	ζ.					Treasury S	toc	ck						
				4.3	J:4: 1								Total		Total	
				Aa Pai	ditional id-	Acc	cumulated				Non-Co	ntrolling	Stock	holders'	Compre	hensive
(Dollars in thousands)	Shares	An	nou	n i n-	Capital	Def	icit	Shares	A	mount	Interest	(NCI)	Equit	y	Loss	
December 31, 2008	5,776,750	\$	58	\$	132,781	\$	(117,570)	1,005,092	\$	(13,754)	\$	11	\$	1,526		
Net loss	-		-		-		(3,099)	-		-		-		(3,099)		(3,099)
Total comprehensive loss															\$	(3,099)
Stock based compensation	-		-		505		-	-		-		-		505		
MTI Micro warrants issued	-				-		(56)	-		-		-		(56)		
Net loss attributed to NCI	-		-		-		-	-		-		(265)		(265)		
Equity contribution to NCI			-		-		-			-		3,411		3,411		
December 31, 2009	5,776,750	\$	58	\$	133,286	\$	(120,725)	1,005,092	\$	(13,754)	\$	3,157	\$	2,022		
Net loss	-		-		-		(1,758)	-		-		-		(1,758)		(1,758)
Total comprehensive loss															\$	(1,758)
Stock based compensation	-		-		1,447		-	-		-		-		1,447		
Net loss attributed to NCI	-		-		-		-	-		-		(1,638)		(1,638)		
Equity contribution to NCI	-		-		-		-	-		-		1,886		1,886		
December 31, 2010	5,776,750	\$	58	\$	134,733	\$	(122,483)	1,005,092	\$	(13,754)	\$	3,405	\$	1,959		
Net income	_		-		_		2,386	_		-				2,386		2,386
Total comprehensive income															\$	2,386
Stock based compensation	-		-		656		-	-		-		-		656		
Issuance of shares restricted stock	483,225		5		-		-	-		-		-		5		
Net loss attributed to NCI	-		-		-		-	-		-		(738)		(738)		
Equity contribution to NCI	-		-		-		-	-		-		647		647		
December 31, 2011	6,259,975	\$	63	\$	135,389	\$	(120,097)	1,005,092	\$	(13,754)	\$	3,314	\$	4,915		

The accompanying notes are an integral part of the consolidated financial statements.

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES CONSOLIDATED STATEMENTS OF CASH FLOWS

For the Years Ended December 31, 2011, 2010, and 2009

(In thousands)	Years Ended December 31,								
	201	1	2010		2009				
Operating Activities									
Net income (loss)	\$	1,648	\$	(3,396)	\$	(3,364)			
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities:									
(Gain) loss on derivatives		(73)		3		29			
Depreciation		307		481		660			
Loss on disposal of property, plant and equipment		23				16			
Deferred income taxes		(1,535)							
Stock based compensation		661		1,447		505			
Loss on extinguishment of debt						232			
Provision for doubtful accounts						92			
Provision for inventory obsolescence						124			
Changes in operating assets and liabilities:									
Accounts receivable		(795)		56		(694)			
Inventories		(113)		(54)		781			
Prepaid expenses and other current assets		26		38		106			
Accounts payable		(64)		(68)		(186)			
Income taxes payable		(20)				(216)			
Deferred revenue		37		5		8			
Accrued liabilities		(35)		(18)		(263)			
Net cash provided by (used in) operating activities		67		(1,506)		(2,170)			
Investing Activities									
Purchases of property, plant and equipment		(175)		(47)		(7)			
Proceeds from sale of property, plant and equipment		12							
Net cash used in investing activities		(163)		(47)		(7)			
Financing Activities									
Proceeds from short-term debt						1,300			
Proceeds from the sale of subsidiary equity and warrants issued		647		1,886					
Net cash provided by financing activities		647		1,886		1,300			
Increase (decrease) in cash and cash equivalents		551		333		(877)			
Cash and cash equivalents - beginning of year		1,118		785		1,662			
Cash and cash equivalents - end of year	\$	1,669	\$	1,118	\$	785			

The accompanying notes are an integral part of the consolidated financial statements.

MECHANICAL TECHNOLOGY, INCORPORATED AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Nature of Operations

Description of Business

Mechanical Technology, Incorporated, (MTI or the Company), a New York corporation, was incorporated in 1961. MTI operates in two segments, the Test and Measurement Instrumentation segment, which is conducted through MTI Instruments, Inc. (MTI Instruments), a wholly-owned subsidiary, and the New Energy segment which is conducted through MTI MicroFuel Cells Inc. (MTI Micro), a variable interest entity (VIE) that is included in these consolidated financial statements and described further below in Note 2.

MTI Instruments was incorporated in New York on March 8, 2000 and is a worldwide supplier of precision non-contact physical measurement solutions, portable balance equipment and wafer inspection tools. MTI Instrument s products use a comprehensive array of technologies to solve complex, real world applications in numerous industries including manufacturing, semiconductor, solar, commercial and military aviation, automotive and data storage. MTI Instrument s products consist of electronic gauging instruments for position, displacement and vibration application within the design, manufacturing/production, test and research market; wafer characterization of semi-insulating and semi-conducting wafers within both the semiconductor and solar industries; tensile stage systems for materials testing at academic and industrial settings; and engine vibration analysis systems for both military and commercial aircraft.

MTI Micro was incorporated in Delaware on March 26, 2001, and is developing Mobion®, a handheld energy-generating device to replace current lithium-ion and similar rechargeable battery systems in many handheld electronic devices for the military and consumer markets. Mobion® handheld generators are based on direct methanol fuel cell (DMFC) technology, which has been recognized as enabling technology for advanced portable power sources by the scientific community and industry analysts. As the need for advancements in portable power increases, MTI Micro is developing Mobion® as a solution for advancing current and future electronic device power needs of the portable electronics market. As of December 31, 2011, the Company owned approximately 47.6% of MTI Micro is outstanding common stock.

Liquidity

The Company has historically incurred significant losses, the majority stemming from the direct methanol fuel cell product development and commercialization programs of MTI Micro, and had a consolidated accumulated deficit of \$120.1 million as of December 31, 2011. During 2011, the Company generated net income attributed to MTI of \$2.4 million and had working capital at December 31, 2011 of \$3.1 million, a \$1.6 million increase from \$1.5 million at December 31, 2010. This increase was primarily attributed to the reversal of a portion of the deferred tax asset s valuation reserve of \$1.5 million, representing the portion of the Company s deferred tax asset that management has estimated is more likely than not to be realized, the improved result of operations for MTI Instruments, a continued hold on expenses, and capital raised through the issuance of MTI Micro stock. The Company had an operating cash surplus of \$67 thousand in 2011 and currently has no debt. While it cannot be assured, management believes that MTI Instruments will continue to generate positive cash flows and be able to fund the Company s operations for at least the next twelve months.

Although MTI Micro continues to believe in the potential of its Mobion® based power solutions, it has suspended its MTI Micro operations until such time as market demand and other deciding factors, including obtaining additional external financing, the successful completion of customer trials, a new development program with a government agency, and/or a customer order, come to fruition. MTI Micro had cash and cash equivalents as of December 31, 2011 of \$110 thousand. Currently, MTI Micro has no employees and projects to spend between \$5 and \$10 thousand per month for operating activities including rent, preparing prototypes for customer demonstrations, minimal sales efforts, patent fees to keep the patent portfolio current and minimal consultant costs to perform these initiatives. If MTI Micro is unable to secure additional financing, a new development program or customer order, the MTI Micro board of directors will assess other options for MTI Micro, including the sale of MTI Micro s intellectual property portfolio and other assets.

As of December 31, 2011, we had approximately \$1.7 million of cash and cash equivalents to fund our future operations. During the year ended December 31, 2011, our results of operations resulted in net income after the non-controlling interest allocation of \$2.4 million and cash provided by operating activities totaling \$67 thousand. We expect to spend approximately \$1.4 million in research and development on MTI Instruments products during 2012. We expect to continue funding our operations from current cash and cash equivalents, proceeds, if any, from additional debt or equity financings and government funding. We may also seek to supplement our resources through the sales of assets (including our investment in MTI Micro). Besides the line of credit at MTI Instruments, we have no other commitments for funding future needs of the organization at this time and such additional financing during 2012 may not be available to us on acceptable terms, if at all.

2. Accounting Policies

Principles of Consolidation

The consolidated financial statements include the accounts of the Company and its wholly-owned subsidiary, MTI Instruments and its VIE, MTI Micro. The Company is the primary beneficiary of the VIE. All inter-company balances and transactions are eliminated in consolidation. The Company reflects the impact of the equity securities issuances in its investment in a VIE and additional paid-in-capital accounts for the dilution or anti-dilution of its ownership interest in the VIE. It is the Company s policy to reclassify prior year consolidated financial statements to conform to current year presentation, if applicable.

The Company has performed an analysis under the VIE model and determined that MTI Micro is a VIE. One of the criteria for determining whether an entity is a VIE is determining if the entity, MTI Micro, has equity at risk. Management has concluded that MTI Micro does not have equity at risk to fund operations into its next phase of development. Further, the Company has determined that it is the primary beneficiary of MTI Micro, and therefore should include MTI Micro s results of operations in the Company s consolidated financial statements.

The Company's analysis to determine the primary beneficiary of MTI Micro focused primarily on determining which variable interest holder has the power to direct the activities that would have the most significant impact on the financial performance of MTI Micro. MTI Micro is governed by its own board of directors and significant decisions are determined by a majority vote of this board. MTI does not have control of the MTI Micro board of directors; however, at this time, the Company s board of directors and the MTI Micro board of directors consist of the same members. Under the Articles of Incorporation of MTI Micro, each share of MTI Micro stock is entitled to a vote, and further, holders of a majority of the shares of MTI Micro's common stock have the ability to reconstitute the board. As of December 31, 2011, MTI, Counter Point Ventures Fund II, LP (Counter Point), Dr. Walter L. Robb, a member of the Company s and MTI Micro s board of directors, and Peng Lim, CEO and board member own 47.6%, 45.2%, 5.1% and 0.5% of the common shares of MTI Micro, respectively. Counter Point is a venture capital fund sponsored and managed by Dr. Robb. Since no entity of the related parties has power but, as a group, the Company and its related parties have the power, then the party within the related party group that is most closely associated with the VIE, MTI Micro, is the primary beneficiary. Even though Dr. Robb and Counterpoint combined control a majority of the outstanding common stock, and they have the ability to elect the directors of MTI Micro and decide whether to continue to seek business opportunities for MTI Micro or instead seek opportunities to sell the intellectual property, they have not elected to do so. The Company continues to oversee the day to day operations, exercise management decision making, seek opportunities to sell intellectual properties, and have a vested interest in the commercialization of MTI Micro s fuel cell technology. Since inception in 2001, the Company has made the largest investment and been the principal funder of MTI Micro. The Company has also been exposed to losses and has the ability to benefit from MTI Micro. Considering the facts and circumstances, management believes the Company is most closely associated with the VIE, MTI Micro, and therefore, it is the primary beneficiary.

Should there be a change in the facts and circumstances (such as a change in governance or a change to the related party group) management will reassess whether they act as the primary beneficiary and should continue to include MTI Micro in the Company s consolidated results of operations.

Non-controlling interest in subsidiaries consists of equity securities issued by a VIE of the Company. Non-controlling interests are now classified as equity in the consolidated financial statements. The consolidated income statement is presented by requiring net income to include the net income for both the parent and the non-controlling interests, with disclosure of both amounts on the consolidated statement of income. The calculation of earnings per share is based on income amounts attributable to the parent.

Use of Estimates

The consolidated financial statements of the Company have been prepared in conformity with accounting principles generally accepted in the United States of America (U.S. GAAP), which require management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Fair Value of Financial Instruments

The Company s financial instruments consist of cash and cash equivalents, accounts receivable, derivatives and accounts payable. The estimated fair values of these financial instruments approximate their carrying values at December 31, 2011 and 2010. The estimated fair values have been determined through information obtained from market sources, where available, or Black-Scholes Option Pricing model valuations.

Accounting for Derivative Instruments

The Company recognizes all derivatives as either assets or liabilities in the statement of financial position and measures these instruments at fair value. The fair value of the derivative is recorded in the Derivative liability line on the consolidated balance sheets, and is valued quarterly using the Black-Scholes Option Pricing Model. The Company also follows the accounting provisions for Accounting for Derivative Financial Instruments Indexed to and Potentially Settled in, a Company s Own Stock, which requires freestanding contracts that are settled in a company s own stock, including common stock warrants, to be designated as an equity instrument, asset or a liability. Under these provisions, a contract designated as an asset or a liability must be carried at fair value, with any changes in fair value recorded in the results of operations. A contract designated as an equity instrument can be included in equity, with no fair value adjustments required. Based on the terms and conditions of the warrant of the Company, the instrument does not qualify to be designated as an equity instrument and is therefore recorded as a derivative liability.

The asset/liability derivatives are valued on a quarterly basis using the Black-Scholes Option Pricing Model. Significant assumptions used in the valuation include exercise dates, closing market prices for the Company's common stock, volatility of the Company's common stock, and proxy risk-free interest rates. Gains (losses) on derivatives are included in the Gain (loss) on derivatives line on the consolidated statements of operations.

Accounts Receivable and Allowance for Doubtful Accounts

Trade accounts receivable are stated at the invoiced amount billed to customers and do not bear interest. An allowance for doubtful accounts, if necessary, represents the Company s best estimate of the amount of probable credit losses in its existing accounts receivable. The Company determines the allowance based on historical write-off experience and current exposures identified. The Company reviews its allowance for doubtful accounts monthly. Past due balances over 90 days and over a specified amount are reviewed individually for collectability. All other balances are reviewed on a pooled basis by type of receivable. Account balances are charged off against the allowance when the Company believes it is probable the receivable will not be recovered. The Company does not have any off-balance-sheet credit exposure related to its customers.

Inventories

Inventories are valued at the lower of cost (first-in, first-out) or market. The Company provides estimated inventory allowances for excess, slow moving and obsolete inventory as well as inventory whose carrying value is in excess of net realizable value.

Property, Plant, and Equipment

Property, plant and equipment are stated at cost and depreciated using the straight-line method over their estimated useful lives as follows:

Leasehold improvements	Lesser of the life of the lease or the useful life of the improvement
Computers and related software	3 to 5 years
Machinery and equipment	3 to 10 years
Office furniture, equipment and fixtures	2 to 10 years

Significant additions or improvements extending assets useful lives are capitalized; normal maintenance and repair costs are expensed as incurred. The costs of fully depreciated assets remaining in use are included in the respective asset and accumulated depreciation accounts. When items are sold or retired, related gains or losses are included in net (loss) income.

Income Taxes

Deferred tax assets and liabilities are recognized for temporary differences between financial statement and income tax bases of assets and liabilities, loss carryforwards, and tax credit carryforwards, for which income tax benefits are expected to be realized in future years. A valuation allowance has been established to reduce deferred tax assets, if it is more likely than not that all, or some portion, of such deferred tax assets will not be realized. The effect on deferred taxes of a change in tax rates is recognized in the period which includes the enactment date.

The Company accounts for uncertain tax positions in accordance with accounting standards that address income taxes. The Company must recognize in its financial statements the impact of a tax position, if that position is more likely than not to be sustained on an audit, based on the technical merits of the position.

Fair Value Measurement

The estimated fair value of certain financial instruments, including cash, cash equivalents and short-term debt approximates their carrying value due to their short maturities and varying interest rates. Fair value is the price that would be received to sell an asset or transfer a liability in an orderly transaction between market participants at the measurement date. The Company utilizes valuation techniques that maximize the use of observable inputs and minimize the use of unobservable inputs. Based on the observability of the inputs used in the valuation methods, the Company is required to provide the following information according to the fair value accounting standards. These standards established a fair value hierarchy as specified that ranks the quality and reliability of the information used to determine fair values. Financial assets and liabilities are classified and disclosed in one of the following three categories:

- Level 1: Quoted market prices in active markets for identical assets or liabilities, which includes listed equities.
- Level 2: Observable market based inputs or unobservable inputs that are corroborated by market data. These items are typically priced using models or other valuation techniques. These models are primarily financial industry-standard models that consider various assumptions, including the time value of money, yield curves, volatility factors, as well as other relevant economic measures.
- Level 3: These use unobservable inputs that are not corroborated by market data. These values are generally estimated based upon methodologies utilizing significant inputs that are generally less observable from objective sources.

Revenue Recognition

The Company applies the accounting guidance for revenue recognition in the evaluation of its contracts to determine when to properly recognize revenue. The following outlines the various types of revenue and the determination of the recognition of income for each category:

Product Revenue

Product revenue is recognized when there is persuasive evidence of an arrangement, the collection of a fixed fee is probable or determinable, and delivery of the product to the customer or distributor has occurred, at which time title generally is passed to the customer or distributor. All of these generally occur upon shipment of the product. If the product requires installation to be performed by the Company, all revenue related to the product is deferred and recognized upon the completion of the installation. If the product requires specific customer acceptance, revenue is deferred until customer acceptance occurs or the acceptance provisions lapse, unless the Company can objectively and reliably demonstrate that the criteria specified in the acceptance provisions is satisfied.

MTI Instruments currently has distributor agreements in place for the international sale of general instrument and semiconductor products in certain global regions. Such agreements grant a distributor the right of first refusal to act as distributor for such products in the distributor s territory. In return, the distributor agrees to not market other products which are considered by MTI Instruments to be in direct competition with MTI Instruments products. The distributor is allowed to purchase MTI Instruments equipment at a price which is discounted off the published domestic/international list prices. Such list prices can be adjusted by MTI Instruments during the term of the distributor agreement, but MTI Instruments must provide advance notice at least 90 days before the price adjustment goes into effect. Generally, payment terms with the distributor are standard net 30 days; however, on occasion, extended payment terms have been granted. Title and risk of loss of the product passes to the distributor upon delivery to the independent carrier (standard free-on-board factory), and the distributor is responsible for any required training and/or service with the end-user. The sale (and subsequent payment) between MTI Instruments and the distributor is not contingent upon the successful resale of the product by the distributor. Distributor sales are covered by MTI Instruments standard one-year warranty and there are no special return policies for distributors.

Some of MTI Instruments—direct sales, particularly sales of semi-automatic semiconductor metrology equipment, or rack-mounted vibration systems, involve on-site customer acceptance and/or installation. In those instances, revenue recognition does not take place at time of shipment. Instead, MTI Instruments recognizes the sale after the unit is installed and/or an on-site acceptance is given by the customer. Agreed-upon acceptance terms and conditions, if any, are negotiated at the time of purchase.

Funded Research and Development Revenue

The Company performs funded research and development for government agencies under both cost reimbursement and fixed-price contracts. Cost reimbursement contracts provide for the reimbursement of allowable costs. On fixed-price contracts, revenue is generally recognized on the percentage of completion method based upon the proportion of costs incurred to the total estimated costs for the contract. Revenue from reimbursement contracts is recognized as the services are performed. In each type of contract, the Company generally receives periodic progress

payments or payments upon reaching interim milestones. When the current estimates of total contract revenue for commercial development contracts indicate a loss, a provision for the entire loss on the contract is recorded. Any losses incurred in performing funded research and development projects are recognized as research and development expense as incurred. When government agencies are providing funding they do not expect the government to be the only significant end user of the resulting products. These contracts do not require delivery of products that meet defined performance specifications, but are best efforts arrangements to achieve overall research and development objectives. Included in accounts receivable are billed and unbilled work-in-progress on contracts. Billings in excess of contract revenues earned are recorded as deferred revenue. While the Company s accounting for government contract costs is subject to audit by the sponsoring entity, in the opinion of management, no material adjustments are expected as a result of such audits. Adjustments are recognized in the period made.

Commercial Research and Prototype Agreement Income

The Company also applies the proper accounting guidance in the evaluation of commercially funded fuel cell research and prototype agreements in order to determine when to properly recognize income. Payments received in connection with commercial research and prototype agreements are deferred and recognized on a straight-line basis over the term of the agreement for service-related payments, and for milestone and prototype delivery payments, if and when achieved, revenue is deferred and recognized on a straight-line basis over the remaining term of the agreement. Under this policy, when revenue qualifies for recognition it will be recorded in the Consolidated Statements of Operations in the line titled Funded research and development revenue. The costs associated with research and prototype-producing activities are expensed as incurred. Expenses in an amount equal to revenues recognized are reclassified from the line titled Unfunded research and product development to Funded research and product development in the Consolidated Statements of Operations.

Prototype Evaluation Agreements

The Company recognizes income derived from its micro fuel cell prototype evaluation agreements, where the Company receives a lump-sum amount from Original Equipment Manufacturers (OEMs) which are testing the Company s Mobion prototypes for an OEM-specific application, upon delivery of the evaluation prototypes. These prototypes are returned to the Company once the evaluation period expires. There are no warranties given to any OEM regarding these prototypes, and each evaluation agreement is considered a customer specific arrangement. The costs associated with executing these prototype evaluation arrangements are recorded in the Consolidated Statements of Operations in the line titled Unfunded research and development expense as they are incurred and income derived from these arrangements is offset against the expense.

Cost of Product Revenue

Cost of product revenue includes material, labor, overhead and shipping and handling costs. Costs incurred in connection with funded research and development arrangements are included in funded research and product development expenses.

Deferred Revenue

Deferred revenue consists of payments received from customers in advance of services performed, completed installation or customer acceptance.

Warranty

The Company accrues a warranty liability at the time product revenue is recorded based on historical experience. The liability is reviewed during the year and is adjusted, if appropriate, to reflect new product offerings or changes in experience. Actual warranty claims are tracked by product line. Warranty liability was \$26 thousand and \$36 thousand at December 31, 2011 and 2010, respectively.

Long-Lived Assets

The Company accounts for impairment or disposal of long-lived assets in accordance with accounting standards that address the financial accounting and reporting for the impairment or disposal of long-lived assets, specify how impairment will be measured, and how impaired assets will be classified in the consolidated financial statements. On a quarterly basis, the Company analyzes the status of its long-lived assets at each subsidiary for potential impairment. As of December 31, 2011, the Company does not believe that any of its long-lived assets have suffered any type of impairment that would require an adjustment to that asset s recorded value.

Cash and Cash Equivalents

Cash and cash equivalents consist of cash and highly liquid short-term investments with original maturities of less than three months.

Net Income (Loss) per Share

The Company computes basic income (loss) per common share by dividing net income (loss) by the weighted average number of common shares outstanding during the reporting period. Diluted income (loss) per share reflects the potential dilution, if any, computed by dividing income (loss) by the combination of dilutive common share equivalents, comprised of shares issuable under outstanding investment rights, warrants and the Company s share-based compensation plans, and the weighted average number of common shares outstanding during the reporting period. Dilutive common share equivalents include the dilutive effect of in-the-money stock options, which are calculated based on the

average share price for each period using the treasury stock method. Under the treasury stock method, the exercise price of a stock option, the amount of compensation cost, if any, for future service that the Company has not yet recognized, and the amount of windfall tax benefits that would be recorded in additional paid-in capital, if any, when the stock option is exercised are assumed to be used to repurchase shares in the current period.

Share-Based Payments

The Company accounts for stock based awards exchanged for employee service in accordance with the stock-based payment accounting guidance. The Company has three share-based employee compensation plans and MTI Micro has two share-based employee compensation plans, all of which are described more fully in Note 13, Stock Based Compensation.

Stock-based compensation represents the cost related to stock-based awards granted to employees and directors. The Company measures stock-based compensation cost at grant date based on the estimated fair value of the award, and recognizes the cost as expense on a straight-line basis in accordance with the vesting of the options (net of estimated forfeitures) over the option s requisite service period. The Company estimates the fair value of stock-based awards using a Black Scholes valuation model. Stock-based compensation expense is recorded in the lines titles. Selling, general and administrative expenses and. Unfunded research and product development expenses in the Consolidated Statements of Operations based on the employees.

The Company records deferred tax assets for awards that potentially can result in deductions on the Company s income tax returns based on the amount of compensation cost that would be recognized upon issuance of the award and the Company s statutory tax rate. Differences between the deferred tax assets recognized for financial reporting purposes and the actual tax deduction reported on the Company s income tax return are recorded in Additional Paid-In Capital (if the tax deduction exceeds the deferred tax asset) or in the Consolidated Statement of Operations (if the deferred tax asset exceeds the tax deduction and no historical pool of windfall tax benefits exists). Since the adoption of the revised accounting standard on share-based payments, no tax benefits have been recognized related to share-based compensation since the Company has established a full valuation allowance to offset all potential tax benefits associated with these deferred tax assets.

Concentration of Credit Risk

Financial instruments that subject the Company to concentrations of credit risk principally consist of cash equivalents, trade accounts receivable and unbilled contract costs. The Company s trade accounts receivable and unbilled contract costs and fees are primarily from sales to commercial customers, the U.S. government and state agencies. The Company does not require collateral and has not historically experienced significant credit losses related to receivables or unbilled contract costs and fees from individual customers or groups of customers in any particular industry or geographic area.

The Company has cash deposits in excess of federally insured limits. The amount of such deposits is essentially all cash at December 31, 2011.

Research and Development Costs

The Company expenses research and development costs as incurred.

Effect of Recent Accounting Pronouncements

In September 2011, the FASB issued guidance on the presentation of comprehensive income. This guidance eliminates the current option to report other comprehensive income and its components in the statement of changes in equity. The guidance allows two presentation alternatives: (1) present items of net income and other comprehensive income in one continuous statement, referred to as the statement of comprehensive income; or (2) in two separate, but consecutive, statements of net income and other comprehensive income. This guidance is effective as of the beginning of a fiscal year that begins after December 15, 2011. Early adoption is permitted, but full retrospective application is required under both sets of accounting standards. The guidance also previously required the presentation of adjustments for items that are reclassified from other comprehensive income to net income in the statement where the components of net income and the components of other comprehensive income are presented; however, this portion of the guidance has been deferred. The Company plans to adopt the guidance during the quarter ended March 31, 2012. The Company believes the adoption of this new guidance will not have a material impact on its condensed consolidated financial statements as this update has an impact on presentation only.

Reclassifications

Prior period amounts related to inventory have been reclassified to conform to the current period presentation.

3. Accounts Receivable

Accounts receivables consist of the following at December 31:

	2011		201	0
	(dollar	ars in th	ousan	ds)
U.S. and State Government:				
Amount billable	\$		\$	30
Amount billed		990		313
Total U.S. and State Government		990		343
Commercial		891		743
Total	\$	1,881	\$	1,086

As of December 31, 2011 and 2010, the Company had no allowance for doubtful trade accounts receivable.

4. Inventories

Inventories consist of the following at December 31:

	2011		2010	0
	(dollar	ars in t	housa	nds)
Finished goods	\$	310	\$	283
Work in process		211		156
Raw materials		436		405
	\$	957	\$	844

As of December 31, 2011 and 2010, the Company had an inventory reserve of \$243 thousand and \$393 thousand, respectively.

5. Property, Plant and Equipment

Property, plant and equipment consist of the following at December 31:

	2011		2010	
	(dolla	rs in tho	ousan	ds)
Leasehold improvements	\$ 1	,213	\$	1,213
Computers and related software	2	2,130		2,164
Machinery and equipment	3	3,541		3,823
Office furniture and fixtures		457		473
	7	,341		7,673
Less accumulated depreciation	7	,083		7,248
•	\$	258	\$	425

Depreciation expense was \$307, \$481, and \$660 thousand for 2011, 2010, and 2009, respectively. Repairs and maintenance expense was \$39, \$18, and \$20 thousand for 2011, 2010, and 2009, respectively.

6. Income Taxes

Income tax benefit (expense) for each of the years ended December 31 consists of the following:

	2011		2010	200	9
	(dolla	rs in tho	usands)		
Federal	\$		\$	\$	9
State		13	(4)		199
Deferred		1,535			
Total	\$	1,548	\$ (4)	\$	208

The significant components of deferred income tax benefit from operations before non-controlling interest for each of the years ended December 31 consists of the following:

	2011		2010)	200	9
	(doll	ars in tho	usands))		
Deferred tax benefit	\$	(402)	\$	675	\$	432
Net operating loss carry forward		(6,035)		740		(1,927)
Valuation allowance		7,972		(1,415)		1,495
	\$	1,535	\$		\$	

The Company s effective income tax rate from operations before non-controlling interest differed from the Federal statutory rate for each of the years ended December 31 as follows:

	2011	2010	2009
Federal statutory tax rate	34%	34%	34%
State taxes, net of federal tax effect	(45)	6	
Impact of adjustments to state tax rates	3,099		
Change in valuation allowance	(7,972)	(42)	42
Permanent tax difference on derivative valuation	(25)		
Loss on extinguishment of debt			(2)
IRC Section 382 Limitation	3,097		(64)
Expiring net operating loss	3	(3)	
Adjustment to opening deferred tax balance	260	5	(3)
Other, net	1		(1)
Tax Rate	(1,548)%	0%	6%

Pre-tax gain (loss) before non-controlling interests was \$100 thousand, \$(3.4) million, and \$(3.6) million for 2011, 2010, and 2009, respectively.

Deferred Tax Assets:

Deferred tax assets are determined based on the temporary differences between the financial statement and tax bases of assets and liabilities as measured by the enacted tax rates. Temporary differences, net operating loss carryforwards and tax credit carryforwards that give rise to deferred tax assets and liabilities are summarized as follows as of December 31:

	2011 (doll	2011 2010 (dollars in thousands))	
Current deferred tax assets:					
Inventory valuation	\$	84	\$	157	
Inventory capitalization		11		13	
Vacation pay		57		77	
Warranty and other sale obligations		9		14	
Other reserves and accruals		111		63	
		272		324	
Valuation allowance current		(252)		(324)	
		`		(324)	
Net current deferred tax assets	\$	20	\$		
Noncurrent deferred tax assets:					
Net operating loss	\$	17,654	\$	23,688	
Property, plant and equipment		53		366	
Stock options		2,880		2,918	
Research and development tax credit		450		450	
Alternative minimum tax credit		54		54	
		21,091		27,476	
Valuation allowance noncurrent		(19,576)		(27,476)	
Non-current net deferred tax assets	\$	1,515	\$		

As of December 31, 2011, the Company has approximately \$450 thousand of research and development tax credit carry forwards, which begin to expire in 2018, and approximately \$54 thousand of alternative minimum tax credit carry forwards, which have no expiration date.

Valuation Allowance:

The Company provides for recognition of deferred tax assets if the realization of such assets is more likely than not to occur in accordance with accounting standards that address income taxes. Significant management judgment is required in determining the period in which the reversal of a valuation allowance should occur. The Company has considered all available evidence, both positive and negative, such as historical levels of income and future forecasts of taxable income amongst other items in determining whether a full or partial release of our valuation allowance is required. In addition, the Company s assessment requires us to schedule future taxable income in accordance with accounting standards that address income taxes to assess the appropriateness of a valuation allowance which further requires the exercise of significant management judgment.

As a result of our analyses in 2011, the Company released a portion of our valuation allowance against our deferred tax assets. The partial release of the valuation allowance caused an incremental tax benefit of \$1.5 million to be recognized in the fourth quarter of 2011. The release of a portion of the valuation allowance was based upon a recent cumulative income history for MTI and Subsidiaries exclusive of MTI Micro (MTI Micro files separate federal and state tax returns) causing the Company to evaluate what portion of the Company's deferred tax assets it believes are more likely that not to be realized. The Company has determined that it will generate sufficient levels of pre-tax earnings in the future to realize the net deferred tax assets recorded on the balance sheet at December 31, 2011. The Company has projected such pre-tax earnings utilizing a combination of historical and projected results, taking into consideration existing levels of permanent differences, non-deductible expense and the reversal of significant temporary differences. The Company needs to generate approximately \$225 thousand of taxable income in each year over the next twenty years to ensure the realizability of the approximately \$1.5 million of deferred tax assets recorded on the balance sheet at December 31, 2011.

The Company believes that the accounting estimate for the valuation of deferred tax assets is a critical accounting estimate because judgment is required in assessing the likely future tax consequences of events that have been recognized in our financial statements or tax returns. The Company based our estimate of deferred tax assets and liabilities on current tax laws and rates and, in certain cases, business plans and other expectations about future outcomes. In the event that actual results differ from these estimates or the Company adjusts these estimates in future periods, the Company may need to adjust the recorded valuation allowance, which could materially impact our financial position and results of operations.

The valuation allowance at December 31, 2011 and 2010 was \$19.8 million and \$27.8 million, respectively. Activity in the valuation allowance for deferred tax assets is as follows as of December 31:

	2011			2010		9
		(do	ollars	in thousan	ds)	
Valuation allowance, beginning of year	\$	27,800	\$	26,385	\$	27,880
Deductions resulting in income tax benefit		(1,535)				
Additions charged to other accounts				1,415		
Deduction charged to other accounts		(6,437)				(1,495)
Valuation allowance, end of year	\$	19,828	\$	27,800	\$	26,385

The remaining valuation allowance at December 31, 2011 of \$19.8 million primarily relates to net operating losses and stock based compensation. The Company will continue to evaluate the ability to realize our deferred tax assets and related valuation allowances on a quarterly basis.

Net operating losses:

At December 31, 2011, the Company has unused Federal net operating loss carry forwards of approximately \$66.9 million.

As a result of the conversion of the Bridge Notes in December of 2009 (see Note 17 for further discussion of the transaction), MTI no longer maintained an 80% or greater ownership in MTI Micro. Thus, MTI Micro is no longer included in Mechanical Technology, Incorporated and Subsidiaries' consolidated federal and combined New York State tax returns, effective December 9, 2009. Pursuant to the Internal Revenue Service's consolidated tax return regulations (IRS Regulation Section 1.1502-36), upon MTI Micro leaving the Mechanical Technology, Incorporated and Subsidiaries—consolidated group, MTI has elected to reduce a portion of its stock tax basis in MTI Micro by "reattributing" a portion of MTI Micro's net operating loss carryforwards to MTI, for an amount equivalent to its built in loss in MTI's investment in MTI Micro's stock. As the result of MTI making this election with its December 31, 2009 tax return, MTI reattributed approximately \$45.2 million of MTI Micro's net operating losses (reducing its tax basis in MTI Micro's stock by the same amount), leaving MTI Micro with approximately \$13 million of separate company net operating loss carry forwards at the time of conversion of the Bridge Notes.

As of December 31, 2011, it is estimated that MTI has net operating loss carryforwards of approximately \$50.4 million and MTI Micro has net operating loss carryforwards of approximately \$16.5 million. Of the Company s carry forwards, \$1.3 million represents windfall tax benefits from stock option transactions, the tax effect of which are not included in the Company s net deferred tax assets.

In addition, a formal Section 382 study was performed for both the Company and MTI Micro. The Company's and/or its subsidiaries ability to utilize their net operating loss carryforwards may be significantly limited by Section 382 of the IRC of 1986, as amended, if the Company or any of its subsidiaries undergoes an ownership change as a result of changes in the ownership of the Company's or its subsidiaries outstanding stock pursuant to the exercise of the warrants or otherwise. A corporation generally undergoes an ownership change when the ownership of its stock, by value, changes by more than 50 percentage points over any three-year testing period. In the event of an ownership change, IRC Section 382 imposes an annual limitation on the amount of post-ownership change taxable income a corporation may offset with pre-ownership change net operating loss carryforwards and certain recognized built-in losses. As of December 31, 2011, the Company does not appear to have had an ownership change for IRC Section 382 purposes. However, as a result of MTI Micro s issuance of stock between 2009 and 2011, MTI Micro has had an ownership change for IRC Section 382 purposes which places limitations on the utilization of MTI Micro s separate company net operating loss carryforwards. MTI Micro s net operating losses have been reduced by \$14.6 million. This net operating loss limited by IRC Section 382 is not reflected in the Company s deferred tax asset as of December 31, 2011.

The balance of the Company s net operating losses carried forward from 2010 of \$67.2 million was reduced by \$8 thousand in expired net operating losses. The remaining Federal net operating loss carry forwards, if unused, will continue to expire beginning in 2020 for the Company, and 2022 for MTI Micro.

Unrecognized tax benefits:

A reconciliation of the beginning and ending amount of unrecognized tax benefits in accordance with accounting standards that address income taxes for 2011, 2010 and 2009 is as follows:

	201	1	201	.0	200	9
			(0	lollars in	thous	ands)
Balance as of January 1,	\$	1,186	\$	1,836	\$	2,049
Deductions for settlements				650		213
Balance as of December 31.	\$	1.186	\$	1.186	\$	1.836

In future periods, if \$1.2 million of these unrecognized benefits become supportable, the Company may not recognize a change in its effective tax rate as long as it remains in a partial valuation allowance position. Additionally the Company does not have uncertain tax positions that it expects will increase or decrease within twelve months of this reporting date. In accordance with the Company s accounting policy, it recognizes interest and penalties related to uncertain tax positions as a component of tax expense. This policy did not change as a result of the adoption of accounting guidance for uncertain tax positions. The Company did not recognize any interest or penalties in 2011 and 2010. For both December 31, 2011 and 2010, the Company had \$0 of accrued interest and penalties related to uncertain tax positions.

The Company files income tax returns, including returns for its subsidiaries, with federal and state jurisdictions. The Company is no longer subject to IRS or NYS examinations for its federal and state returns for any periods prior to 2008, although carryforward attributes that were generated prior to 2008 may still be adjusted upon examination by the IRS if they either have been or will be used in a future period. On February 2, 2009, New York State Department of Taxation and Finance notified the Company that it was no longer going to pursue the issue associated with potentially not permitting the Company to file combined tax returns for the period 2002 through 2004. At December 31, 2008 the Company had recorded a \$213 thousand long-term liability for this issue. In the settlement of this issue, the Company paid New York State approximately \$19 thousand and recognized the benefit of the reversal of this liability of \$194 thousand in the first quarter of 2009.

7. Accrued Liabilities

Accrued liabilities consist of the following at December 31:

	201	1	201	.0
	(dol	(dollars in thousan		
Salaries, wages and related expenses	\$	593	\$	476
Liability to shareholders for previous acquisition		363		363
Legal and professional fees		126		173
Warranty and other sale obligations		26		36
Commissions		21		36
Other		109		189
	\$	1,238	\$	1,273

8. Fair Value Measurement

In determining the appropriate levels, the Company performs a detailed analysis of financial assets and liabilities. At each reporting period, all assets and liabilities for which the fair value measurements are based upon significant unobservable inputs were classified as Level 3. The derivative liability was valued using the Black-Scholes Option Pricing Model which is based upon unobservable inputs. The derivative liability was \$0 and \$73 thousand as of December 31, 2011 and December 31, 2010, respectively.

The following is a rollforward of Level 3 fair value instruments for the year ended December 31, 2011:

(Dollars in thousands)	Beginning	Tot Los	al (Gains) / ses	Purchases,	Ending
	Balance as			Issuances,	Balance as of December
	of Jan. 1,	Rea	lized and	Sales and	31,
Instrument	2011	Uni	ealized	Settlements	2011
Derivative liability	\$ 73	\$	(73)	\$	\$
Total Level 3 instruments	\$ 73	\$	(73)	\$	\$

The following is a rollforward of Level 3 fair value instruments for the year ended December 31, 2010:

(Dollars in thousands)			Total (Gains) /			
(Donais in thousands)			(Gains	,,		Ending	
	Begini	ning	Losses		Purchases,	Balance	as
	Balan	ce as	Realiz	ed	Issuances,	of Decen	ıber
	of		and		Sales	31,	
	Jan. 1	,			and		
Instrument	2010		Unrea	lized	Settlements	2010	
Derivative liability	\$	70	\$	3	\$	\$	73
Total Level 3 instruments	\$	70	\$	3	\$	\$	73

9. Stockholders Equity

Common Stock

The Company has one class of common stock, par value \$.01. Each share of the Company s common stock is entitled to one vote on all matters submitted to stockholders. As of December 31, 2011 and 2010 there were 5,254,883 and 4,771,658, respectively shares of common stock issued and outstanding.

Sale of Common Stock

On December 15, 2006, the Company entered into agreements with certain investors to sell 756,944 shares of common stock and warrants to purchase 378,472 shares of common stock for an aggregate purchase price of \$10.9 million. The common stock and warrants were sold in units, with each unit consisting of 12.5 shares of common stock and a warrant to purchase 6.25 shares of common stock, at an exercise price of \$18.16 per share. Each non-certificated unit was sold at a negotiated price of \$180.00. The shares of common stock and warrants were immediately separable and were issued separately (see Warrants Issued below). The common stock, the warrants and shares issuable upon exercise of the warrants were registered with the Securities and Exchange Commission.

Warrants Issued

On December 20, 2006, the Company issued warrants to investors to purchase 378,472 shares of the Company's common stock at an exercise price of \$18.16 per share. The warrants became exercisable on June 20, 2007 and expired on December 19, 2011. These warrants were fair valued by the Company until the expiration of the warrants. The fair value of the warrants at December 31, 2011 and 2010 was \$0 and \$73 thousand, respectively.

Reservation of Shares

The Company has reserved common shares for future issuance as follows as of December 31, 2011:

Stock options outstanding	797,437
Stock awards available for issuance	261,601
Number of common shares reserved	1,059,038

10. Issuance of Common Stock, Warrants and Stock Options by MTI Micro

MTI Micro was formed on March 26, 2001, and, as of December 31, 2011, the Company owned approximately 47.6% of MTI Micro s outstanding common stock, or 75,049,937 shares, and 53.3% of the common stock and warrants issued, which includes 32,904,136 warrants outstanding. The number of shares of MTI Micro common stock authorized for issuance is 240,000,000 as of December 31, 2011.

Common Stock Issued MTI Micro

On January 11, 2010, MTI Micro entered into a Purchase Agreement with Counter Point. Counter Point is a venture capital fund sponsored and managed by Dr. Walter L. Robb, a member of the Board of Directors of the Company and MTI Micro, and a current stockholder of MTI Micro. Pursuant to the Purchase Agreement, MTI Micro issued and sold to Counter Point 28,571,429 shares of common stock, par value \$0.01 per share (the MTI Micro Common Stock), at a purchase price per share of \$0.07, over a period of twelve months, and warrants (MTI Micro Warrants) to purchase shares of MTI Micro Common Stock equal to 20% of the shares of MTI Micro Common Stock purchased under the Purchase Agreement at an exercise price of \$0.07 per share. The sale and issuance of the MTI Micro Common Stock and MTI Micro Warrants occurred over multiple closings (each, a Closing). Nine Closings occurred through December 31, 2010, with MTI Micro raising \$1.9 million from the sale of 26,952,386 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 5,390,477 shares of MTI Micro Common Stock to Counter Point. The final Closing occurred on January 5, 2011, with MTI Micro raising \$113 thousand from the sale of 1,619,043 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 323,809 shares of MTI Micro Common Stock to Counter Point.

On February 9, 2011, Amendment No. 1 was entered into between MTI Micro and Counter Point. Pursuant to Amendment No. 1, MTI Micro issued and sold to Counter Point 6,428,574 shares of MTI Micro Common Stock at a purchase price per share of \$0.07, through December 31, 2011, and MTI Micro Warrants to purchase shares of MTI Micro Common Stock equal to 20% of the shares of MTI Micro Common Stock purchased under Amendment No. 2 at an exercise price of \$0.07 per share. The sale and issuance of the MTI Micro Common Stock and MTI Micro Warrants occurred over multiple closings (each, a Closing) occurring over four one-month closing periods (each, a Closing Period). Four Closings occurred through September 30, 2011, with MTI Micro raising \$450 thousand from the sale of 6,428,574 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 1,285,715 shares of MTI Micro Common Stock to Counter Point.

On September 23, 2011, Amendment No. 2 was entered into between MTI Micro and Counter Point. Pursuant to Amendment No. 2, MTI Micro issued and sold to Counter Point 1,200,000 shares of MTI Micro Common Stock at a purchase price per share of \$0.07, through December 31, 2011, and MTI Micro Warrants to purchase shares of MTI Micro Common Stock equal to 20% of the shares of MTI Micro Common Stock purchased under Amendment No. 2 at an exercise price of \$0.07 per share. The sale and issuance of the MTI Micro Common Stock and MTI Micro Warrants occurred over multiple closings (each, a Closing) occurring over four one-month closing periods (each, a Closing Period). Four Closings occurred through December 31, 2011, with MTI Micro raising \$84 thousand from the sale of 1,200,000 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 240,000 shares of MTI Micro Common Stock to Counter Point.

The following table represents changes in ownership between the Company and non-controlling interests (NCI) in common shares of MTI Micro:

	Ave Prio	erage ce	Shares	MTI	Ownership %	Non Controlling	Interest Ownership %	Total Shares
Balance at 12/31/2008			63,797,770		97.3	1,750,345	2.7	65,548,115
Stock issued for MTI Options to MFC Employees	\$	0.14	10,501					10,501
Conversion of Bridge Loan	\$	0.07	11,241,666			44,622,759		55,864,425
Balance at 12/31/09			75,049,937		61.8	46,373,104	38.2	121,423,041
Stock issued under Purchase Agreement	\$	0.07				26,952,386		26,952,386
Balance at 12/31/10			75,049,937		50.6	73,325,490	49.4	148,375,427
Stock issued under Purchase Agreement, 2011	\$	0.07				1,619,043		1,619,043

Balance after Purchase Agreement		75,049,937	50.04	74,944,533 49.97	149,994,470
Stock issued under Amendment No. 1	\$ 0.07			6,428,574	6,428,574
Stock issued under Amendment No. 2	\$ 0.07			1,200,000	1,200,000
Balance at 12/31/11		75,049,937	47.61	82,573,107 52.39	157,623,044

Reservation of Shares

MTI Micro has reserved common shares for future issuance, broken down between the Company and NCI, as follows as of December 31, 2011:

	MTI	NCI	Total
Stock options outstanding		25,124,220	25,124,220
Warrants outstanding	32,904,136	12,196,411	45,100,547
Number of shares reserved for outstanding options and warrants	32,904,136	37,320,631	70,224,767

In addition, MTI Micro has 12,882,780 stock options available for issuance.

As of December 31, 2011, the Company owned an aggregate of approximately 47.6% of the outstanding shares of MTI Micro or 53.3% of the outstanding common stock and warrants issued of MTI Micro, and Dr. Robb and Counter Point owned approximately 45.2% and 5.1%, respectively of the outstanding shares of MTI Micro or 40.3% and 4.3%, respectively of the outstanding common stock and warrants issued of MTI Micro.

Warrants Issued MTI Micro

On December 9, 2009, MTI Micro issued warrants to the then current shareholders of MTI Micro, including the Company, without consideration, to purchase 32,779,310 shares of MTI Micro Stock at an exercise price of \$0.07 per share. The warrants became exercisable on December 9, 2010 and expire on December 8, 2017. The warrants have been accounted for as an equity distribution of \$2.0 million, including warrants to the Company with a value of \$2.0 million, which were eliminated in consolidation.

On December 9, 2009, MTI Micro issued warrants to the Bridge Investors of MTI Micro, including the Company, to purchase 5,081,237 shares of MTI Micro Stock at an exercise price of \$0.07 per share. The MTI Micro Warrants became exercisable on December 9, 2009 and will expire on the earlier of: (i) April 15, 2014; (ii) immediately prior to a change in control; or (iii) immediately prior to an initial public offering of MTI Micro. The MTI Micro Warrants were issued without consideration and were accounted for as equity and a loss on extinguishment of debt was recorded in the amount of \$289 thousand, including warrants to the Company with a value of \$57 thousand, which were eliminated in consolidation.

Under the Purchase Agreement entered into on January 11, 2010, MTI Micro issued 5,714,286 MTI Micro Warrants to Counter Point to purchase shares of MTI Micro Common Stock at an exercise price of \$0.07 per share. The MTI Micro Warrants became exercisable on the date of issuance and will expire on the earlier of: (a) the five (5) year anniversary of the Date of Issuance of the Warrant; (b) immediately prior to a change in control; or (c) the closing of a firm commitment underwritten public offering pursuant to a registration statement under the Securities Act. The MTI Micro Warrants were accounted for as equity.

Under Amendment No. 1 entered into on February 9, 2011, MTI Micro issued 1,285,715 MTI Micro Warrants to Counter Point to purchase shares of MTI Micro Common Stock at an exercise price of \$0.07 per share. The MTI Micro Warrants became exercisable on the date of issuance and will expire on the earlier of: (a) the five (5) year anniversary of the Date of Issuance of the Warrant; (b) immediately prior to a change in control; or (c) the closing of a firm commitment underwritten public offering pursuant to a registration statement under the Securities Act. The MTI Micro Warrants were accounted for as equity.

Under Amendment No. 2 entered into on September 23, 2011, MTI Micro issued 240,000 MTI Micro Warrants to Counter Point to purchase shares of MTI Micro Common Stock at an exercise price of \$0.07 per share. The MTI Micro Warrants became exercisable on the date of issuance and will expire on the earlier of: (a) the five (5) year anniversary of the Date of Issuance of the Warrant; (b) immediately prior to a change in control; or (c) the closing of a firm commitment underwritten public offering pursuant to a registration statement under the Securities Act. The MTI Micro Warrants were accounted for as equity.

Refer to Note 17 for further discussion.

11. Retirement Plan

The Company maintains a voluntary savings and retirement plan under IRC Section 401(k) covering substantially all employees. Employees must complete six months of service and have attained the age of twenty-one prior to becoming eligible for participation in the plan. The Company plan allows eligible employees to contribute a percentage of their compensation on a pre-tax basis and the Company matches

employee contributions dollar for dollar up to a discretionary amount, currently 4%, of the employee s salary, subject to annual tax deduction limitations. Company matching contributions vest at a rate of 25% annually for each year of service completed. Company matching contributions were \$99, \$107, and \$141 thousand for 2011, 2010, and 2009, respectively. The Company may also make additional discretionary contributions in amounts as determined by management and the Board of Directors. There were no additional discretionary contributions by the Company for the years 2011, 2010, or 2009.

12. Income (Loss) per Share

The following table sets forth the reconciliation of the numerators and denominators of the basic and diluted per share computations for continuing operations for the years ended December 31:

	2011		2010 housands, except shares		200	9
Numerator:	(doi	iars in thous	anus,	except shares)		
Net income (loss)	\$	2,386	\$	(1,758)	\$	(3,099)
Denominator:						
Basic EPS:						
Common shares outstanding, beginning of period		4,771,658		4,771,658		4,771,658
Weighted average common shares issued during the period		230,276				
Denominator for basic earnings per common shares						
Weighted average common shares		5,001,934		4,771,658		4,771,658
Diluted EPS:						
Common shares outstanding, beginning of period		4,771,658		4,771,658		4,771,658
Weighted average common shares issued during the period		230,276				
Denominator for diluted earnings per common shares -						
Weighted average common shares		5,001,934		4,771,658		4,771,658

Not included in the computation of earnings per share, assuming dilution for the year ended December, 2011, were options to purchase 797,437 shares of the Company s common stock. These potentially dilutive items were excluded even though the average market price of the common stock exceeded the exercise prices for a portion of the options because the calculation of incremental shares resulted in an anti-dilutive effect.

Not included in the computation of earnings per share-assuming dilution for the year ended December 31, 2010 were options to purchase 878,986 shares of the Company s common stock and warrants to purchase 378,472 shares of the Company s stock. These potentially dilutive items were excluded because the Company incurred a loss for this period and their inclusion would be anti-dilutive.

Not included in the computation of earnings per share-assuming dilution for the year ended December 31, 2009 were options to purchase 716,403 shares of the Company s common stock and warrants to purchase 378,472 shares of the Company s stock. These potentially dilutive items were excluded because the Company incurred a loss for this period and their inclusion would be anti-dilutive.

13. Stock Based Compensation

MTI Option Plans

Stock-based incentive awards are provided to employees and directors under the terms of the Company s 1996 Stock Incentive Plan (1996 Plan), 1999 Employee Stock Incentive Plan (1999 Plan) and 2006 Equity Incentive Plan (2006 Plan), which was amended and restated effective June 30, 2011 and September 16, 2009, (collectively, the Plans). Awards under the Plans have generally included at-the-money options and restricted stock grants.

The 1996 Plan was approved by stockholders during December 1996 and expired during October 2006. The 1996 Plan provided an initial aggregate number of 500,000 shares of common stock to be awarded or issued. The number of shares available to be awarded under the 1996 Plan and awards outstanding were adjusted for stock splits and rights offerings. The total number of shares which may be awarded under the 1996 Plan was 468,352 during 2005. Under the 1996 Plan, the Board of Directors was authorized to issue stock options, stock appreciation rights, restricted stock, and other stock-based incentives to officers, employees and others.

The 1999 Plan was adopted by the Company s Board of Directors, approved by stockholders on March 18, 1999 and expired during 2009. The 1999 Plan provided an initial aggregate number of 1,000,000 shares of common stock to be awarded or issued. The number of shares to be awarded under the 1999 Plan and awards outstanding were adjusted for stock splits, and during 2005, 2006, and 2007, the total number of shares which could be awarded under the 1999 Plan was 562,500 shares. Under the 1999 Plan, the Board of Directors was authorized to issue stock-based awards to officers, employees and others.

The 2006 Plan was adopted by the Company s Board of Directors on March 16, 2006 and approved by stockholders on May 18, 2006. The plan was amended and restated by the Board of Directors effective September 16, 2009 and June 30, 2011. The September 16, 2009 Amended and Restated 2006 Equity Incentive Plan increased the initial aggregate number of 250,000 shares of common stock which may be awarded or issued to 600,000, and the June 30, 2011 Amended and Restated 2006 Equity Incentive Plan increased the aggregate number of shares of common stock which may be awarded or issued to 1,200,000. The number of shares which may be awarded under the 2006 Plan and awards outstanding has been adjusted for stock splits and other similar events. Under the 2006 Plan, the Board of Directors is authorized to issue stock options, stock appreciation rights, restricted stock, and other stock-based incentives to officers, employees and others. Until stockholder approval is obtained, the Company may not grant further stock options or stock appreciation rights.

Stock-based compensation expense for the year ended December 31, 2011 was generated from fully vested restricted stock grants and fully vested stock awards. Stock options are awards which allow holders to purchase shares of the Company's common stock at a fixed price. Stock options issued to employees generally vest 50% immediately, and then quarterly over the next three years. Options issued to non-employee members of the MTI Board of Directors generally vest upon grant. Certain options granted may be fully or partially exercisable immediately, may vest on other than a four year schedule or vest upon attainment of specific performance criteria. Restricted stock awards generally vest one year after the date of grant; however, certain awards may vest immediately or vest upon attainment of specific performance criteria. Option exercise prices are generally equivalent to the closing market value price of the Company's common stock on the date of grant. Unexercised options generally terminate either seven or ten years after date of grant.

The Company estimates the fair value of stock options using a Black-Scholes valuation model. Key inputs and assumptions used to estimate the fair value of stock options include the grant price of the award, the expected option term, volatility of the Company s stock, an appropriate risk-free rate, and the Company s dividend yield. Estimates of fair value are not intended to predict actual future events or the value ultimately realized by employees who receive equity awards, and subsequent events are not indicative of the reasonableness of the original estimates of fair value made by the Company.

During 2011, the Company granted 483,225 restricted stock units, which immediately vested and the stock was issued to holders. The fair value of these grants was based on the closing market value price of the Company s common stock on the date of grant. The weighed average exercise prices of these grants was \$.62 per share.

There were no stock options granted during 2011 and 2009.

The fair value of each 2010 stock option grant was estimated at the date of grant using a Black-Scholes Option Pricing Model. The following table presents the weighted-average assumptions used for options granted under the Plans:

	2010	
Option term (years)		5.03
Volatility	128.3	150%
Risk-free interest rate range	1.46	2.04%
Dividend yield		0%
Weighted-average fair value per option granted	\$	0.54

Share-based compensation expense recognized in the Consolidated Statements of Operations is based on awards ultimately expected to vest, therefore, awards are reduced for estimated forfeitures. The revised accounting standard requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates.

Total share-based compensation expense, related to all of the Company s share-based awards, recognized for the years ended December 31, was comprised as follows:

	2011		2010		2009	
	(dollars i	n thousand	ls, except e	ps)		
Unfunded research and product development	\$	18	\$	21	\$	92
Selling, general and administrative		370		226		413
Share-based compensation expense	\$	388	\$	247	\$	505
Impact on basic and diluted EPS	\$	0.08	\$	(0.05)	\$	(0.11)

Total unrecognized compensation costs related to non-vested awards as of December 31, 2011 is \$104 thousand, and is expected to be recognized over a weighted-average vesting period of approximately 0.87 years.

As a result of the amendments in 2011 and 2009 of the 2006 Plan, 600,000 and 350,000 additional shares were made available for granting, respectively. Presented below is a summary of the Company s stock option plans activity for the years ended December 31:

	2011	2010	2009
Shares under option, beginning	878,986	716,403	780,340
Granted		216,000	171,750
Exercised			
Canceled/Forfeited	(4,851)	(8,506)	(89,799)
Expired	(76,698)	(44,911)	(145,888)
Shares under option, ending	797,437	878,986	716,403
Options exercisable	719,229	719,623	571,617
Remaining shares available for granting of options	261,601	114,591	316,216

The weighted average exercise price for the Plans is as follows for each of the years ended December 31:

	2011	2010	2009
Shares under option, beginning	11.41	15.97	21.56
Granted		0.59	1.31
Exercised			
Canceled/Forfeited	3.23	8.85	4.09
Expired	20.73	32.64	35.91
Shares under option, ending	10.56	11.41	15.97
Options exercisable, ending	11.63	13.59	18.72

The following table summarizes information for options outstanding and exercisable for the Plans as of December 31, 2011:

	Outstanding O	ptions			Options Exerc	isable	
		Weighted Average	Wei	ghted		Wei	ghted
Exercise		Remaining	Ave	rage		Ave	rage
			Exe	cise		Exe	rcise
Price Range	Number	Contractual Life	Pric	e	Number	Pric	e
\$0.00 - \$1.15	272,211	8.38	\$	0.72	211,569	\$	0.75
\$1.16 - \$3.60	214,554	5.76	\$	1.72	197,042	\$	1.75
\$3.61 - \$14.24	103,067	2.32	\$	11.74	103,013	\$	11.75
\$14.25 - \$22.64	45,289	2.22	\$	19.39	45,289	\$	19.39
\$22.65 - \$33.36	58,248	2.93	\$	30.37	58,248	\$	30.37
\$33.37 - \$50.24	104,068	1.63	\$	38.47	104,068	\$	38.47
	797,437	5.26	\$	10.56	719,229	\$	11.63

The aggregate intrinsic value (i.e. the difference between the closing stock price and the price to be paid by the option holder to exercise the option) is \$0 for the Company s outstanding options and \$0 for the exercisable options as of December 31, 2011. The amounts are based on the Company s closing stock price of \$0.50 as of December 31, 2011.

There were no unvested restricted stock options for the period ended December 31, 2011.

MTI Micro Option Plans

MTI Micro has two plans for issuing MTI Micro stock-based incentive awards; the MTI MicroFuel Cells Inc. 2001 Employee, Director and Consultant Stock Option Plan (2001 MTI Micro Plan) and the MTI MicroFuel Cells Inc. 2009 Stock Plan (2009 Micro Plan), (collectively, the MTI Micro Plans).

The 2001 MTI Micro Plan was approved by MTI Micro s stockholders in 2001 and provided an initial aggregate number of 1,766,000 shares of MTI Micro common stock to be awarded. The number of shares which may be awarded under the 2001 MTI Micro Plan and awards outstanding have been adjusted for a 2004 reverse stock split, and during 2005, 2006, and 2007, the total number of shares which may be awarded under the 2001 MTI Micro Plan were 3,416,667 shares. Under the 2001 MTI Micro Plan, the MTI Micro Board of Directors was authorized to award stock options to officers, directors, employees and consultants. During 2005, MTI Micro ceased making grants under the 2001 MTI Micro Plan

and determined that it would make no new awards under this plan in the future.

The MTI Micro Board of Directors approved the 2009 Micro Plan on December 8, 2009. This plan provided an initial aggregate number of 38,000,000 shares of MTI Micro s common stock to be awarded. Under the 2009 Micro Plan, the MTI Micro Board of Directors is authorized to award stock options to directors, employees, consultants and advisors of MTI Micro.

There were no stock options granted in 2011 and 2009.

On September 15, 2010, MTI Micro granted 6,330,520 options to its employees from the 2009 Micro Plan. The options vest 50% on the grant date and 50% ratably on a quarterly basis over the next three years. The fair value of these stock options granted was estimated at the date of grant using a Black-Scholes Option Pricing Model.

The key inputs and assumptions used to estimate the fair value of these 2010 stock options were as follows:

Option term	5 years		
Volatility		115	%
Risk-free interest rate		1.46	%
Dividend yield		0	%
Fair value per option granted	\$	0.07	

The amount of expense recognized for this grant was \$52 thousand and \$187 thousand for 2011 and 2010, respectively. Share-based compensation expense recognized in the Consolidated Statement of Operations is based on awards ultimately expected to vest, therefore, awards are reduced for estimated forfeitures. The accounting standard requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. The Company has assumed a forfeiture rate of 5% for this grant.

On February 10, 2010, MTI Micro granted 28,296,800 options to its employees from the 2009 Micro Plan. The options vest 50% on the grant date and 50% ratably on a quarterly basis over the next three years. The fair value of these stock options granted was estimated at the date of grant using a Black-Scholes Option Pricing Model.

The key inputs and assumptions used to estimate the fair value of these stock options were as follows:

5 years		
	115	%
	2.39	%
	0	%
\$	0.07	
	5 years	115 2.39 0

The amount of expense recognized for this grant was \$221 thousand and \$1.01 million for 2011 and 2010, respectively. Share-based compensation expense recognized in the Consolidated Statement of Operations is based on awards ultimately expected to vest, therefore, awards are reduced for estimated forfeitures. The accounting standard requires forfeitures to be estimated at the time of grant and revised, if necessary, in subsequent periods if actual forfeitures differ from those estimates. The Company has assumed a forfeiture rate of 5% for this grant.

Presented below is a summary of compensation expense, which is included in the summary of the Company s compensation expense under all share-based awards above, for the MTI Micro Plans:

	2011	2010	2009
	(dollars in	n thousands)	
Stock option compensation expense	\$ 273	\$ 1,199	\$
Total stock-based compensation expense	\$ 273	\$ 1,199	\$

Total unrecognized compensation costs related to non-vested awards as of December 31, 2011 is \$233 thousand.

Presented below is a summary of the MTI Micro Plans activity for the years ended December 31:

	2011	2010	2009
Shares under option, beginning	33,050,720	15,001	15,001
Granted		34,627,320	
Exercised			
Canceled/Forfeited	(7,926,500)	(1,591,601)	

Shares under option, ending	25,124,220	33,050,720	15,001
Options exercisable	20,040,419	20,131,783	15,001
Remaining shares available for granting of options	12.882.780	4.956,280	38,000,000

The weighted average exercise price for the MTI Micro Plans is as follows for each of the years ended December 31:

	201	1	201	.0	200	9
Shares under option, beginning	\$	0.07	\$	3.89	\$	3.89
Granted				0.07		
Exercised						
Canceled/Forfeited		0.07		0.09		
Shares under option, ending		0.07		0.07		3.89
Options exercisable, ending		0.07		0.07		3.89

The weighted average fair value of stock options granted is required to be based on a theoretical statistical model using the preceding Black-Scholes Option Pricing Model assumptions.

The following table summarizes information for options outstanding and exercisable for the MTI Micro Plans as of December 31, 2011:

		Outstanding Options		Options Exercisal	ble		
		Weighted Average	Wei	ghted		Weig	hted
Exercise		Remaining	Ave	rage		Avera	ige
				cise		Exerc	cise
Price Range	Number	Contractual Life	Pric	e	Number	Price	
\$0.07 - \$2.54	25,117,220	8.23	\$	0.07	20,033,419	\$	0.07
\$2.55 - \$3.79	2,000	1.25	\$	2.55	2,000	\$	2.55
\$3.80 - \$4.65	1,167	0.86	\$	3.80	1,167	\$	3.80
\$4.66 - \$4.66	3,833	2.25	\$	4.66	3,833	\$	4.66
	25,124,220	8.23	\$	0.07	20,040,419	\$	0.07

14. Cash Flows Supplemental Information

	2011	Years Ended December 31, 2011 2010 2009 (dollars in thousands)		
Non-Cash Financing Activities:				
Change in investment and paid-in capital resulting from other				
investors activity in MTI Micro stock	\$	\$	\$	3,411

15. Derivatives

The Company held or had outstanding the following derivative financial instruments as of December 31:

Derivatives issued:	2011	2010	Expiration
Warrants, exercisable beginning June 20, 2007, to purchase the			
Company s common stock issued to three investors at a purchase			
price of \$18.16 per share		378,472	12/19/2011

Warrant Derivative to Purchase MTI Common Stock: The warrants issued during the Company s December 2006 capital raise were legally freestanding, detachable and transferable by the holders. The features of the warrant allowed both straight cash exercises as well as cashless exercises. Due primarily to a stipulation in the warrant agreement which allowed a potential cash settlement with the holders if the Company was acquired by, or merged with a private company, these warrants were classified as an asset/liability derivative in accordance with the accounting guidance.

The estimated fair value of this warrant at the date issued was \$18.16 per share, using a Black-Scholes Option Pricing Model and assumptions similar to those used for valuing the Company s employee share-based compensation. The fair value of the derivative was recorded in the Derivative liability line on the consolidated financial statements, and was valued quarterly using the Black-Scholes Option Pricing Model. The assumptions used for the valuations as of December 31 were as follows:

	2010
Expected life of option (days)	365
Risk-free interest rate	0.29%
Expected volatility of stock	219.4%
Expected dividend yield	None

The Company recognized changes in fair value in its Consolidated Statements of Operations in the line titled Gain (loss) on derivatives.

16. Commitments and Contingencies

Contingencies:

Legal

We are subject to legal proceedings, claims and liabilities which arise in the ordinary course of business. We accrue for losses associated with legal claims when such losses are probable and can be reasonably estimated. These accruals are adjusted as additional information becomes available or circumstances change. Legal fees are charged to expense as they are incurred.

Commitments:

Leases

The Company and its subsidiaries lease certain manufacturing, laboratory and office facilities. The leases generally provide for the Company to pay either an increase over a base year level for taxes, maintenance, insurance and other costs of the leased properties or the Company s allocated share of insurance, taxes, maintenance and other costs of leased properties. The leases contain renewal provisions.

Future minimum rental payments required under non-cancelable operating leases (with initial or remaining lease terms in excess of one year) as of December 31, 2011 are (dollars in thousands): \$279 in 2012, \$285 in 2013 and \$266 in 2014. Rent expense under all leases was \$307, \$528, and \$564 thousand for 2011, 2010, and 2009, respectively. Rent expense was reduced during the year ended December 31, 2011 as a result of the Supplemental Lease Extension and Modification Agreement dated September 29, 2011 between Kingfisher, LLC and MTI Micro.

Licenses

Under a 2002 NYSERDA contract, MTI Micro agreed to pay NYSERDA a royalty of 5.0% of the sales price of any product sold incorporating IP developed pursuant to the NYSERDA contract. If the product is manufactured by a New York State manufacturer, this royalty is reduced to 1.5%. Total royalties are subject to a cap equal to two times the total contract funds paid by NYSERDA to MTI Micro, and may be reduced to reflect any New York State jobs created by MTI Micro. As of December 31, 2011 and 2010, there are no amounts accrued in the consolidated balance sheets related to this royalty provision.

Under the 2010 NYSERDA contract, MTI Micro agreed to pay NYSERDA a royalty of 5.0% of the sales price of any product sold incorporating IP developed pursuant to the NYSERDA contract. The obligation commences on the first date of the first sale of these products and is in place for fifteen years. Total royalties are subject to a cap equal to three times the total contract funds paid by NYSERDA to MTI Micro. However, if the product is manufactured by a New York State manufacturer, this royalty is reduced to 1.5% and total royalties are subject to a cap equal to one times the total contract funds paid by NYSERDA to MTI Micro. As of December 31, 2011 and 2010, there are no amounts accrued in the consolidated balance sheets related to this royalty provision.

Employment Agreements

The Company has employment agreements with certain employees that provide severance payments, certain other payments, accelerated vesting and exercise extension periods of certain options upon termination of employment under certain circumstances, as defined in the applicable agreements. As of December 31, 2011, the Company s potential minimum obligation to these employees was approximately \$595 thousand.

Royalty Commitment

On January 28, 2010, MTI Instruments entered into an Asset Purchase and Sale Agreement with Ernest F. Fullam, Inc., Peter Fullam and Diane Fullam to acquire the tensile stage line of products from Ernest F. Fullam, Inc, a pioneering microscopy accessories company from Clifton Park, NY. As part of the acquisition, Mr. Peter Fullam joined MTI Instruments as a Product Sales Engineer until September 30, 2011, at which time he became a consultant for MTI Instruments, and MTI Instruments purchased machinery, inventory and the rights to use the Fullam/MTI Instruments product name. Additionally, commencing with the calendar quarter ending March 31, 2010 and ending at the close of the calendar quarter ending December 31, 2012, MTI Instruments will pay Ernest F. Fullam, Inc. a royalty equal to 5% of the Gross Sales achieved on specific Fullam products. Royalty expense related to this agreement was \$10 thousand and \$12 thousand for the years ended December 31, 2011 and 2010, respectively.

17. Equity Investments for MTI Micro Related Party

On September 18, 2008, MTI Micro executed a Convertible Note and Warrant Purchase Agreement, Secured Convertible Promissory Note Agreements (the Bridge Notes), Security Agreement (the Security Agreement) and Warrant Agreements (the Warrants). The investors (the Bridge Investors) included MTI, in the form of conversion of existing debt of \$700 thousand, Dr. Walter L. Robb, a member of the Company s and MTI Micro s Boards of Directors, and Counter Point Ventures Fund II, LP (Counter Point). Counter Point is a venture capital fund sponsored and managed by Dr. Walter L. Robb. General Electric Pension Trust, an employee benefit plan trust, is a passive limited partner in Counter Point. The Bridge Notes allowed MTI Micro to borrow up to an aggregate of \$2.2 million, including conversion of the outstanding debt totaling \$700 thousand owed to the Company. Under this agreement, MTI Micro closed on \$1.5 million of funding from Other Investors on September 18, 2008.

On February 20, 2009, MTI Micro and the Investors agreed to, among other things, amend the Bridge Notes (Bridge Notes Amendment No. 1) to permit MTI Micro to sell additional Bridge Notes with an additional principal amount of up to \$500 thousand to additional investors, and to extend the maturity date from March 31, 2009 to May 31, 2009 (the Maturity Date). No other terms of the Bridge Notes were amended. Following the effectiveness of Bridge Notes Amendment No. 1, MTI Micro borrowed an additional \$500 thousand from Counter Point, bringing the aggregate outstanding principal amount borrowed under the Bridge Notes, as amended, to \$2.7 million, including conversion of outstanding debt totaling \$700 thousand owed to the Company.

On April 15, 2009, MTI Micro and the Investors agreed to amend the Bridge Notes (Bridge Notes Amendment No. 2) to permit MTI Micro to sell additional Bridge Notes with an additional principal amount of up to \$800 thousand to an additional investor and Counter Point, and to extend the maturity date from May 31, 2009 to March 31, 2010 (the Maturity Date). Effective December 4, 2009, MTI Micro had sold all additional Bridge Notes, as amended. The Bridge Notes had an interest rate of 10%, compounded annually.

On December 9, 2009, MTI Micro entered into a Secured Convertible Promissory Note Negotiated Conversion Agreement (the Conversion Agreement) with the Company and the other Bridge Investors. The parties agreed to, among other things, convert the aggregate principal and accrued interest amount of \$3.9 million outstanding under the Bridge Notes into an aggregate of 55,864,425 shares of Common Stock of MTI Micro using a conversion price per share of \$0.07 (the Negotiated Conversion). Warrants to purchase MTI Micro common stock at \$0.07 per share were issued to Bridge Investors for an aggregate of 5,081,237 shares. As an incentive for MTI Micro to agree to the terms of the Negotiated Conversion, MTI Micro, the Company and the Bridge Investors also agreed that immediately prior to the consummation of the Negotiated Conversion, MTI Micro would issue to each current MTI Micro stockholder (including the Company), without consideration, a warrant (MTI Micro Warrant) exercisable after one (1) year for up to 50% of the aggregate number of shares of Common Stock each such MTI Micro stockholder currently held in MTI Micro, at \$0.07 per share and with a term of seven (7) years. Accordingly, immediately prior to the consummation of the Negotiated Conversion on December 9, 2009, MTI Micro issued MTI Micro Warrants exercisable for an aggregate of 32,779,310 shares of MTI Micro Common Stock.

As a result of the Negotiated Conversion, the Company converted an aggregate principal and accrued interest amount of \$787 thousand outstanding under the Bridge Notes into an aggregate of 11,241,666 shares of Common Stock of MTI Micro, and the Company s ownership interest in MTI Micro decreased from approximately 97.3% to approximately 61.8%, or 67.8% on a fully-diluted basis including the MTI Micro Warrants issued to all current MTI Micro stockholders and the Bridge Warrants. The balance of the Bridge Note payable was \$0 as of December 31, 2009.

On January 11, 2010, MTI Micro entered into the Purchase Agreement with Counter Point. Counter Point is a venture capital fund sponsored and managed by Dr. Walter L. Robb, a member of the Board of Directors of the Company and MTI Micro, and a current stockholder of MTI Micro. Pursuant to the Purchase Agreement, MTI Micro issued and sold to Counter Point 28,571,429 shares of common stock, par value \$0.01 per share (the MTI Micro Common Stock), at a purchase price per share of \$0.07, over a period of twelve months, and warrants (MTI Micro Warrants) to purchase shares of MTI Micro Common Stock equal to 20% of the shares of MTI Micro Common Stock purchased under the Purchase Agreement at an exercise price of \$0.07 per share. The sale and issuance of the MTI Micro Common Stock and MTI Micro Warrants occurred over multiple closings (each, a Closing). Nine Closings occurred through December 31, 2010, with MTI Micro raising \$1.9 million from the sale of 26,952,386 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 5,390,477 shares of MTI Micro Common Stock to Counter Point. The final Closing occurred on January 5, 2011, with MTI Micro raising \$113 thousand from the sale of 1,619,043 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 323,809 shares of MTI Micro Common Stock to Counter Point.

On February 9, 2011, Amendment No. 1 was entered into between MTI Micro and Counter Point. Pursuant to Amendment No. 1, MTI Micro issued and sold to Counter Point 6,428,574 shares of MTI Micro Common Stock at a purchase price per share of \$0.07, through December 31, 2011, and MTI Micro Warrants to purchase shares of MTI Micro Common Stock equal to 20% of the shares of MTI Micro Common Stock purchased under Amendment No. 1 at an exercise price of \$0.07 per share. The sale and issuance of the MTI Micro Common Stock and MTI Micro Warrants occurred over multiple closings (each, a Closing) occurring over four one-month closing periods (each, a Closing Period). Four

Closings occurred through September 30, 2011, with MTI Micro raising \$450 thousand from the sale of 6,428,574 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 1,285,715 shares of MTI Micro Common Stock to Counter Point.

On September 23, 2011, Amendment No. 2 was entered into between MTI Micro and Counter Point. Pursuant to Amendment No. 2, MTI Micro issued and sold to Counter Point 1,200,000 shares of MTI Micro Common Stock at a purchase price per share of \$0.07, through December 31, 2011, and MTI Micro Warrants to purchase shares of MTI Micro Common Stock equal to 20% of the shares of MTI Micro Common Stock purchased under Amendment No. 2 at an exercise price of \$0.07 per share. The sale and issuance of the MTI Micro Common Stock and MTI Micro Warrants occurred over multiple closings (each, a Closing) occurring over four one-month closing periods (each, a Closing Period). Four Closings occurred through December 31, 2011, with MTI Micro raising \$84 thousand from the sale of 1,200,000 shares of MTI Micro Common Stock and MTI Micro Warrants to purchase 240,000 shares of MTI Micro Common Stock to Counter Point.

As of December 31, 2011, the Company owned an aggregate of approximately 47.6% of the outstanding shares of MTI Micro or 53.3% of the outstanding common stock and warrants issued of MTI Micro, and Dr. Robb and Counter Point owned approximately 45.2% and 5.1%, respectively of the outstanding shares of MTI Micro or 40.3% and 4.3%, respectively of the outstanding common stock and warrants issued of MTI Micro.

On December 9, 2011, MTI Instruments purchased laboratory and computer equipment from MTI Micro for a total of \$84 thousand, which was funded by the Company.

18. Geographic and Segment Information

The Company sells its products on a worldwide basis with its principal markets listed in the table below where information on product revenue and funded research and development revenue is summarized by geographic area for the Company as a whole for each of the years ended December 31:

	2011 (doll:	ars in thousand	2010 (s)		2009	
Product revenue:						
United States	\$	6,856	\$	4,703	\$	3,908
Singapore		1,066		170		23
Hong Kong		736		684		251
Japan		337		238		612
Korea		9		180		103
China		163		318		13
Taiwan		92		231		50
Malaysia		53		64		5
Other Pacific Rim		13		13		
Germany		203		4		12
United Kingdom		128		58		149
Netherlands		125		164		147
Austria		28				
France		57		3		
Switzerland		78				
Other Europe		27		43		56
Canada		125		168		59
Middle East		34		33		202
Russia		73		2		3
Turkey		9				463
Rest of World		68		103		207
Total product revenue	\$	10,280	\$	7,179	\$	6,263
Funded research and development revenue:						
United States	\$	13	\$	1,234	\$	2,043
Total funded research and development revenue	\$	13	\$	1,234	\$	2,043
Total revenue	\$	10,293	\$	8,413	\$	8,306

Revenues are attributed to regions based on the location of customers.

The Company operates in two business segments, Test and Measurement Instrumentation and New Energy. The Test and Measurement Instrumentation segment designs, manufactures, markets and services high performance test and measurement instruments and systems, wafer characterization tools for the semiconductor and solar industries, tensile stage systems for materials testing at academic and industrial settings, and computer-based balancing systems for aircraft engines. The New Energy segment is focused on commercializing direct methanol fuel cells. The Company s principal operations are located in North America.

The accounting policies of the Test and Measurement Instrumentation and New Energy segments are similar to those described in the summary of significant accounting policies (Note 2). The Company evaluates performance based on profit or loss from operations before income taxes. Inter-segment sales and expenses are not significant.

Total product revenues contributed of the Test and Measurement Instrumentation products segment and their percentage of total product revenues for each of the years ended December 31 are shown below:

	2011			20	2010			2009			
	Sa	les	%	Sa	les	%	Sa	les	%		
(dollars in thousands)											
Aviation Balancing Systems	\$	5,359	52.1 %	\$	3,007	41.9 %	\$	2,768	44.2 %		
Precision Instruments		3,983	38.8		2,804	39.1		2,619	41.8		
Semiconductor and Solar Metrology Total	\$	938 10,280	9.1 100.0%	\$	1,368 7,179	19.0 100.0%	\$	876 6,263	14.0 100.0%		

In the Test and Measurement Instrumentation segment, the U.S. Air Force accounted for \$2.3 million or 22.4% of total revenue in 2011, \$1.6 million or 22.3% of total product revenue in 2010, and \$1.2 million or 19.2% of total product revenue in 2009. The largest commercial customer in 2011 was a Southeast Asian distributor, who accounted for \$1.1 million or 10.7% of total product revenue in 2011. The largest commercial customer in 2010 was a Chinese distributor, who accounted for \$560 thousand, or 7.8% of total product revenue in 2010. The largest commercial customer in 2009 was a domestic US defense contractor, who accounted for \$618 thousand or 9.9% of total product revenue in 2009.

In the New Energy segment, the DOE accounted for \$6 thousand or 49.7% of total funded research and development revenue in 2011, \$944 thousand or 77.0% of total funded research and development revenue in 2010, and \$2.0 million or 100.0% of total funded research and development revenue in 2009.

Summarized financial information concerning the Company s reportable segments is shown in the following table. The Other column includes corporate related items and items such as income taxes or unusual items, which are not allocated to reportable segments. The Reconciling Items column includes non-controlling interests in a consolidated entity. In addition, segments non-cash items include any depreciation in reported profit or loss. The New Energy segment figures include the Company s direct micro fuel cell operations. As a result of the suspension of the MTI Micro operations, the New Energy segment will continue to be included in these tables during 2012 as long as they remain in our consolidated operations. The activity presented will be reflective of the minimal activity anticipated to be incurred by MTI Micro during 2012.

	Te	st and				Condensed
(Dollars in thousands)	Mo	Reconcilingonsolidated				
	Ins	Instrumentati Ne w Energy			Items	Totals
Year Ended December 31, 2011						
Product revenue	\$	10,280	\$	\$	\$	\$ 10,280
Funded research and development revenue			13			13
Research and product development expenses		1,243	223			1,466
Selling, general and administrative expenses		2,306	993	1,695		4,994
Segment profit (loss) from operations before income						
taxes and non-controlling interest		2,476	(1,460)	(916)		100
Segment profit (loss)		2,476	(1,462)	634	738	2,386
Total assets		3,038	173	3,191		6,402
Capital expenditures		170		5		175
Depreciation		90	210	7		307

	Test and				Condensed	
(Dollars in thousands)	Measureme	ent		Reconcil	ingConsolidated	
	Instrument	aNion Energy	Other	Items	Totals	
Year Ended December 31, 2010						
Product revenue	\$ 7,179	\$	\$	\$	\$ 7,179	
Funded research and development revenue		1,234			1,234	
Research and product development expenses	959	2,896			3,855	
Selling, general and administrative expenses	1,984	1,950	1,086		5,020	
Segment profit (loss) from operations before income						
taxes and non-controlling interest	886	(3,639)	(639)		(3,392)	
Segment profit (loss)	886	(3,639)	(643)	1,638	(1,758)	
Total assets	1,751	639	1,211		3,601	
Capital expenditures	47				47	
Depreciation	81	385	15		481	

Test and