
**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549**

FORM 8-K

CURRENT REPORT

**PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934**

Date of report (Date of earliest event reported): August 7, 2012

Mercury Computer Systems, Inc.

(Exact Name of Registrant as Specified in Charter)

Massachusetts
**(State or Other Jurisdiction
of Incorporation)**

000-23599
**(Commission
File Number)**

04-2741391
**(IRS Employer
Identification No.)**

201 Riverneck Road, Chelmsford, Massachusetts 01824
(Address of Principal Executive Offices) (Zip Code)

Registrant's telephone number, including area code: (978) 256-1300

Not Applicable
(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 7.01 Regulation FD Disclosure.

The management of Mercury Computer Systems, Inc. ("Mercury") will present an overview of Mercury's business on August 7, 2012 at the Jefferies 2012 Global Industrial and Aerospace & Defense Conference. Attached as Exhibit 99.1 to this Current Report on Form 8-K (the "Report") is a copy of the slide presentation to be made by Mercury at the conference.

This information is being furnished pursuant to Item 7.01 of this Report and shall not be deemed to be "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise subject to the liabilities of that section and will not be incorporated by reference into any registration statement filed by Mercury under the Securities Act of 1933, as amended, unless specifically identified as being incorporated therein by reference. This Report will not be deemed an admission as to the materiality of any information in this Report that is being disclosed pursuant to Regulation FD.

Please refer to page 2 of Exhibit 99.1 for a discussion of certain forward-looking statements included therein and the risks and uncertainties related thereto, as well as the use of non-GAAP financial measures included therein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

<u>Exhibit No.</u>	<u>Description</u>
99.1	Presentation materials dated August 7, 2012.

SIGNATURES

Pursuant to the requirements 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.

Dated: August 7, 2012

MERCURY COMPUTER SYSTEMS, INC.

By: /s/ Kevin M. Bisson

Kevin M. Bisson

Senior Vice President, Chief Financial Officer, and Treasurer

Exhibit Index

Exhibit
No.

Description

99.1 Presentation materials dated August 7, 2012.



Jefferies 2012 Global Industrial and A&D Conference

August 7, 2012

Mark Aslett
President & CEO

Kevin Bisson
SVP & CFO



Forward-Looking Safe Harbor Statement

This press release contains certain forward-looking statements, as that term is defined in the Private Securities Litigation Reform Act of 1995, including those relating to business performance and the Company's plans for growth and improvement in profitability and cash flow. You can identify these statements by the use of the words "may," "will," "could," "should," "would," "plans," "expects," "anticipates," "continue," "estimate," "project," "intend," "likely," "forecast," "probable," and similar expressions. These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected or anticipated. Such risks and uncertainties include, but are not limited to, continued funding of defense programs, the timing of such funding, general economic and business conditions, including unforeseen weakness in the Company's markets, effects of continued geopolitical unrest and regional conflicts, competition, changes in technology and methods of marketing, delays in completing engineering and manufacturing programs, changes in customer order patterns, changes in product mix, continued success in technological advances and delivering technological innovations, changes in the U.S. Government's interpretation of federal procurement rules and regulations, market acceptance of the Company's products, shortages in components, production delays due to performance quality issues with outsourced components, inability to fully realize the expected benefits from acquisitions and divestitures or delays in realizing such benefits, challenges in integrating acquired businesses and achieving anticipated synergies, changes to export regulations, increases in tax rates, changes to generally accepted accounting principles, difficulties in retaining key employees and customers, unanticipated costs under fixed-price service and system integration engagements, and various other factors beyond our control. These risks and uncertainties also include such additional risk factors as are discussed in the Company's filings with the U.S. Securities and Exchange Commission, including its Annual Report on Form 10-K for the fiscal year ended June 30, 2011. The Company cautions readers not to place undue reliance upon any such forward-looking statements, which speak only as of the date made. The Company undertakes no obligation to update any forward-looking statement to reflect events or circumstances after the date on which such statement is made.

Use of Non-GAAP (Generally Accepted Accounting Principles) Financial Measures

In addition to reporting financial results in accordance with generally accepted accounting principles, or GAAP, the Company provides adjusted EBITDA and free cash flow, which are non-GAAP financial measures. Adjusted EBITDA excludes certain non-cash and other specified charges. Free cash flow is defined as cash flow from operating activities less capital expenditures. The Company believes these non-GAAP financial measures are useful to help investors better understand its past financial performance and prospects for the future. However, the presentation of adjusted EBITDA and free cash flow is not meant to be considered in isolation or as a substitute for financial information provided in accordance with GAAP. Management believes the adjusted EBITDA and free cash flow financial measures assist in providing a more complete understanding of the Company's underlying operational results and trends, and management uses these measures along with the corresponding GAAP financial measures to manage the Company's business, to evaluate its performance compared to prior periods and the marketplace, and to establish operational goals. A reconciliation of GAAP to non-GAAP financial results discussed in this presentation is contained in the Appendix hereto.



Introducing Mercury Computer Systems

- MRCY on NASDAQ
- Real-time digital image, signal and sensor processing
- Commercial-item company unique business model
- Focused on DoD priorities
- Deployed on ~300 programs with 25+ Primes
- \$245M FY12 revenues; 20% Adj. EBITDA margin; 700+ employees
- Defense revenue 76% growth (15% CAGR) FY08–FY12

Best-of-breed provider of open, commercially developed, sensor processing subsystems for ISR and EW



Defense industry turning the page on a decade of war

- FY12 Defense budget approved \$530B base spending
- FY13 Defense budget request announced \$525B base spending
- Budget Control Act reduced FYDP spend growth vs 2012 request
- Budget Control Act Jan 2013 sequester
- 6 month Continuing Resolution likely beginning October 1st

Slower growth in defense spending anticipated over next 5 years



In the near term we believe the industry is in a 12-18 month transition period ...

- New DoD roles and missions announced
- Smaller force structure to protect readiness
- Increased investment in key areas e.g. ISR, EW
- Build capacity and capability of international partners
- Defense procurement reform also underway

...where there will be clear winners and losers



Mercury investment highlights

Leading Market Position	Pure-play C4ISR, EW and defense electronics company entrenched on a diverse mix of programs aligned with DoD priorities
Differentiated Capabilities	Best-of-breed provider of specialized sensor processing subsystems to large defense Primes targeting platform upgrades
Favorable Macro Industry Trends	Increased ISR usage, shift to onboard processing and exploitation evolving EW threats driving greater demand for Mercury solutions
Unique Business Model	Well positioned to benefit from DoD procurement reform, which is driving increased outsourcing by the large defense Primes
Proven Management Team	Well-defined strategy with a demonstrated track record of double-digit defense revenue growth and improved profitability
Well Positioned for Growth	Successful transformation has positioned the business for strong organic growth augmented through strategic acquisitions



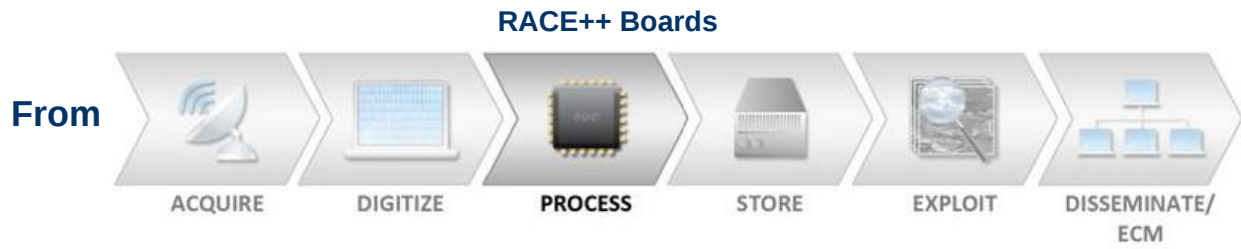
Growth strategy summary

1. Expand our capabilities and offerings along sensor chain
2. Expand market presence within defense electronics
3. Continue to grow our customer and program base
4. Capitalize on Prime outsourcing / supply chain consolidation
5. Acquire complementary companies

Mercury has strategically positioned its business to grow



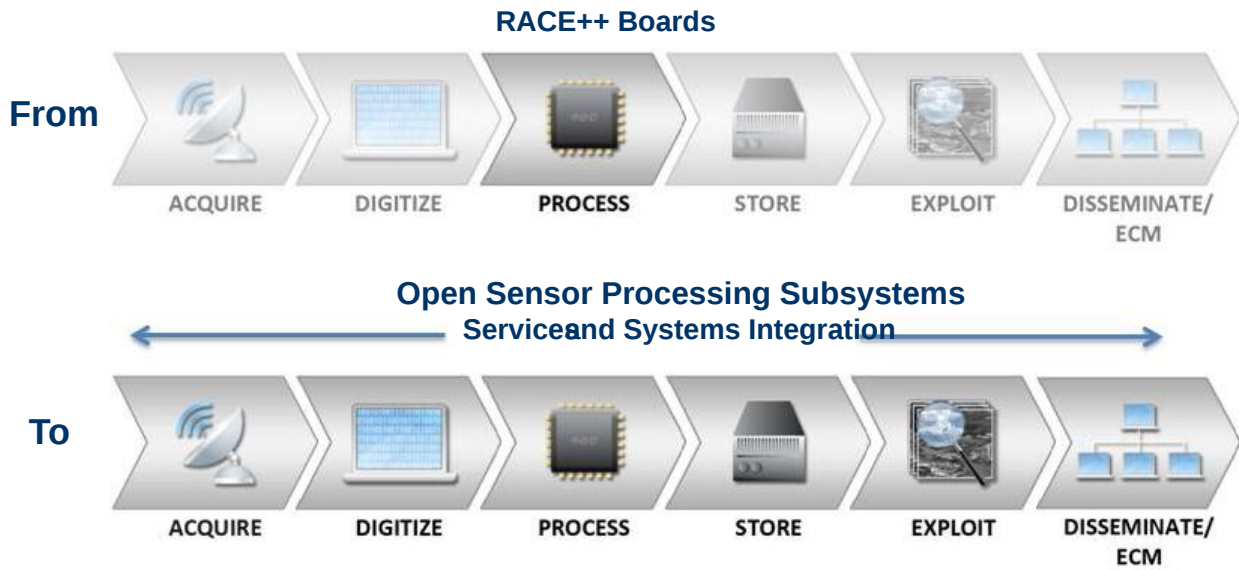
Historically, Mercury focused on one element of sensor chain



We are the leader in high-performance embedded computing



We now view our market opportunity as providing end-to-end open sensor processing subsystems a much larger opportunity



We are systematically growing our capabilities, services and offerings along the sensor chain organically and by acquisition



Mercury's traditional market was narrowly defined as airborne radar processing ...

C4ISR



\$8,796M
22%

... limiting our growth potential within the C4ISR market



Since then, we have systematically broadened our addressable market within C4ISR ...

C4ISR



← Sensor, Program and Platform Agnostic →

...by investing in new products and capabilities



Source: The Teal Group June 2011, World Defense Electronics Funding Available to the US FY13; excludes Sonar and Other totaling \$4,212M (11%).
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We are deployed on 300+ programs with 25+ Primes

NORTHROP GRUMMAN
LOCKHEED MARTIN
BAE SYSTEMS
Argon ST
Raytheon
BOEING
TELEPHONICS
SNC SIERRA NEVADA CORPORATION
ELECTRONIC SYSTEMS AND INTEGRATION
ITT EXELIS
GOODRICH
GENERAL ATOMICS

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RADAR



EW



EO/IR -C4I



Aegis ballistic missile defense: SPY-1 BMD Radar

- Countering rogue nations' ballistic missile threats
- Highest performance radar processor Application Ready Subsystem
- \$10M booked in FY12, \$80M+ booked to date
- Additional 27 ship sets scheduled through GFY16
- AMDR selection in FY13 - partnering with LM



Mercury's largest single program in production to date



Patriot missile defense: Next generation ground radar

- Services-led design win – Prime outsourcing example
- Sophisticated radar processor Application Ready Subsystem
- Production awards received to date: \$50M
 - UAE, Taiwan, Saudi Arabia
- Potential future FMS awards
 - Up to 15 countries including Turkey, Qatar, Kuwait, etc
- US Army Patriot upgrade could begin in GFY13
 - First PO received for US Army



Program in production; FMS and US Army upgrade driving growth

SEWIP Block 2: Countering new emerging peer threats

- Naval surface fleet EW upgrade: 100+ ships
- Delivered best-of-breed EW Application Ready Subsystem
- Expected to move from EMD phase to LRIP in next 12 months
- Production begins GFY15
- Upside opportunities with Block 1 upgrade and Block 3
- Lockheed and Raytheon partnering on SEWIP Block 3



Strong partnership with Prime driving Mercury content expansion

JCREW I1B1 (3.3): Joint services CIED program of record

Software defined jammer to defeat roadside bombs

- JCREW I1B1 program of record in FY13 budget
- Program currently in EMD (engineering) phase
- Milestone C next official gate. Signifies transition to Low Rate Initial Production (LRIP)
- Program experiencing delays:
 - Funding in Marine Corps GY13 budget request
- US Marine Corps req'ts:
 - Total : 3100 mounted, 790 man portable, 13 fixed sites
 - GFY13 : 1020 mounted, 790 man portable



Expect move from EMD phase into Low Rate Initial Production



Gorgon Stare Increment 2

New program win



- Increment 2

- Total contract potential \$31-37M
- \$25M booked FY12
- Quick reaction capability; delivery in 18 months
- New onboard processor and storage for advanced wide area sensors
- Potential upside: flight systems and spares



- Future Increments to GFY18

- Processor upgrades
- Onboard multi-INT fusion
- PED improvements



Several opportunities for growth over the next 3-6 years



Program growth driver update



Aegis: Ballistic Missile Defense

Well-defined upgrade provides foundational revenue



Patriot: Missile Defense

U.S. Army upgrades expected to begin in GFY13; FMS Sales



SEWIP: Naval Electronic Warfare

LRIP expected to begin GFY13



JCREW I1B1 (3.3): Counter-IED

Program expected to transition from EMD phase to LRIP



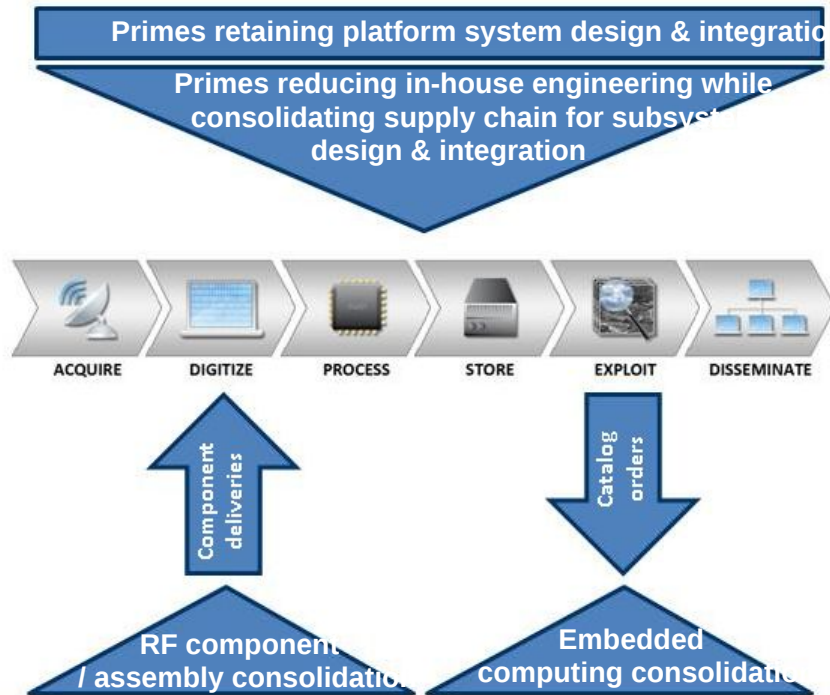
Gorgon Stare: Wide-area airborne surveillance

Continued work on Increment 2



Outsourcing could substantially increase our market opportunity even with defense spending cuts

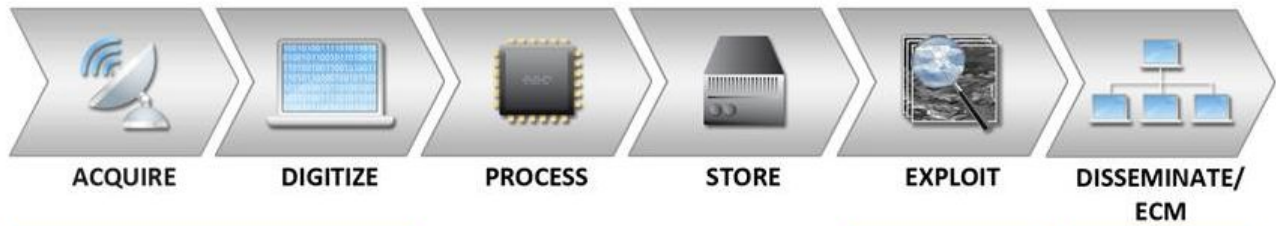
- Reduce risk given firm-fixed price contracts
- Address high-fixed cost operating model
- Increase success rate on new programs and production recompetes
- Develop differentiated, more affordable solutions with fewer internal R&D dollars
- Compress upgrade development and deployment cycles
- Consolidate supply base at subsystem level



Mercury has strategically positioned its business to help

Through acquisition we are creating a unique, scalable microwave, RF and digital solutions platform

Sensor Processing Chain



RF acquisition targets:
RF transmitters / receivers
Power amplifiers
Synthesizers
DRFM

Exploitation
and
Fusion

Tailored feeds
directly to field
forces or ECM



We view our market opportunity as providing end-to-end, open sensor processing subsystems to the Primes



Supplement organic growth and capability via complementary acquisitions

Acquisition Case Study:

Micronetics

- Leading designer and manufacturer of microwave and RF subsystems and components for defense and commercial customers
- Applications include electronic warfare, radar, electronic countermeasures, satellite communications and commercial wireless products
- Announced transaction value of \$75 million, immediately accretive to EBITDA
- Micronetics FY2012 revenue \$46 million (30% YoY growth), \$3.4 million of earnings, \$26 million backlog
- Expected to close in Mercury FQ1 2013

- **Driving growth through acquisition**
 - Grow ACS in ISR and EW markets by adding capabilities along sensor processing chain
 - MFS acquire multi-INT exploitation capability and channel to intelligence community
 - Add Mercury content and services to existing and future defense and intelligence programs
- **Focus on the following characteristics:**
 - Tens of millions revenue to start
 - Demonstrated profitability and growth
 - Accretive on an EBITDA basis within 12 months; GAAP EPS accretive within reasonable period
- **Proprietary pipeline of targets**
 - Attractive destination for target companies



Positioned for growth in a changing industry

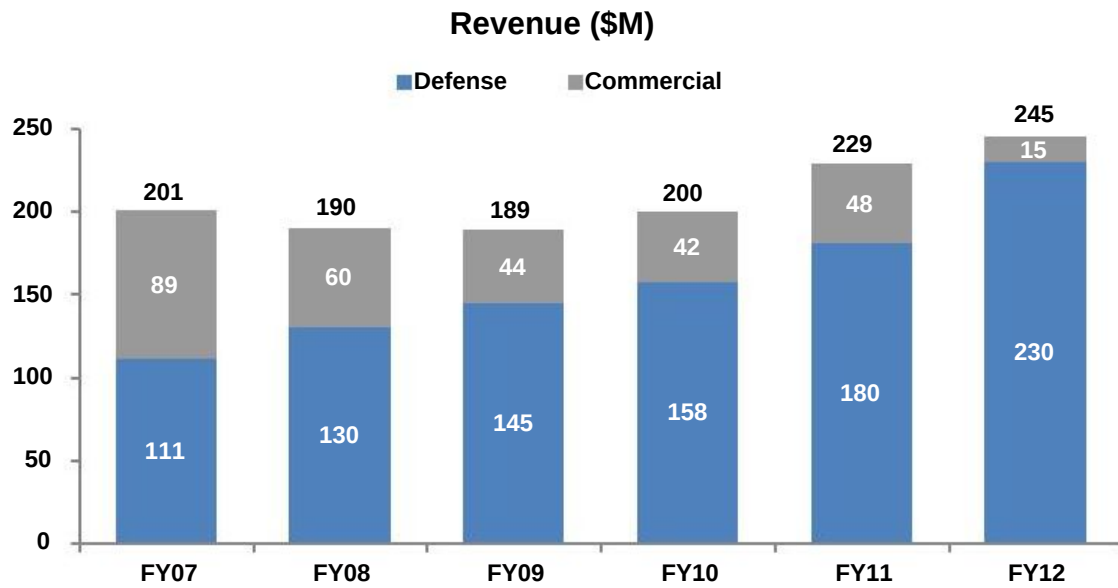
- Focused on the right defense market segments
- Well positioned on key programs and platforms
- Capabilities help address today's and tomorrow's threats
- Business model aligned with defense procurement reform
- Outsourcing partner to the Primes for sensor subsystems
- Strong defense revenue growth and improved profitability
- Pursuing complementary acquisitions to accelerate growth



Financial Overview

Defense revenue growth accelerating

27% defense revenue growth YoY in FY12



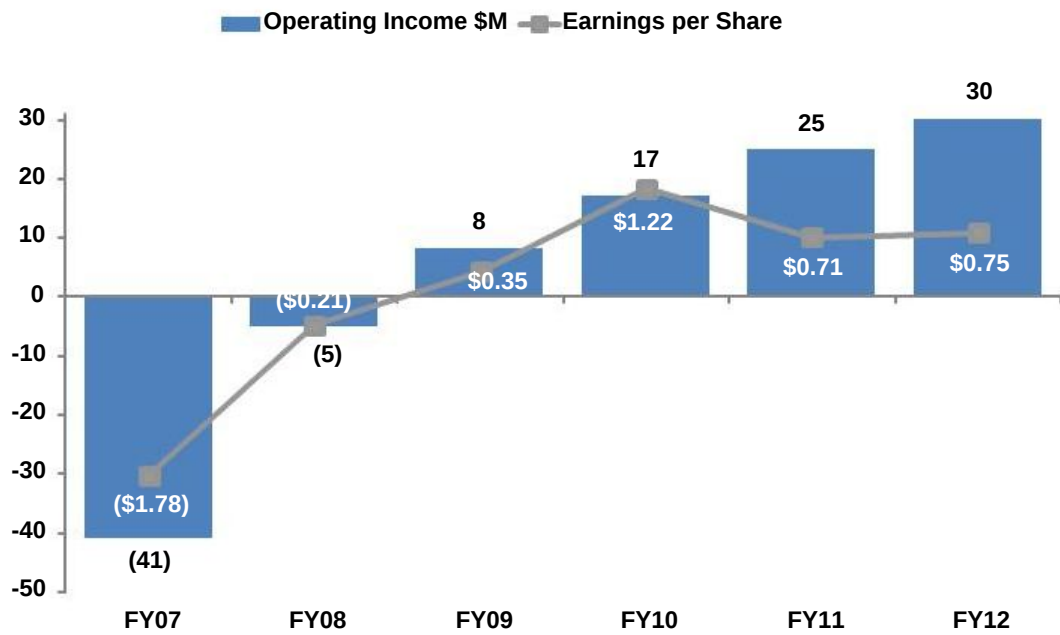
Notes:

- FY07-10 figures adjusted for discontinued operations.

Defense: 16% CAGR FY07-12



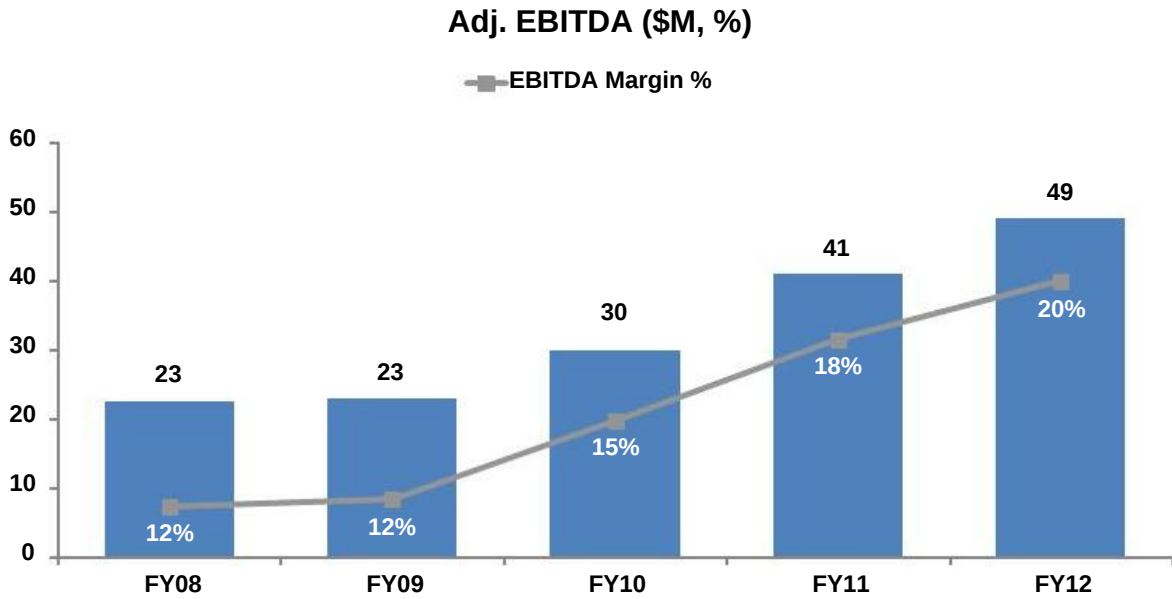
Profitability restored and improving



Notes:

- FY07 figures are as reported in the Company's fiscal 2007 Form 10K and have not been restated for discontinued operations.
- FY08 figures are as reported in the Company's fiscal 2010 Form 10K. FY09-11 figures are as reported in the Company's fiscal 2011 Form 10K.
- FY10 Earnings per Share of \$1.22 were positively influenced by \$0.68 from the partial reversal of the valuation allowance against deferred tax assets and an effective FY10 tax rate benefit of approximately 5%.
- FY11 and FY12 EPS includes the impact of 5.6M additional shares from our follow-on public stock offering on February 16, 2011.

Adjusted EBITDA above pro forma target



Notes:

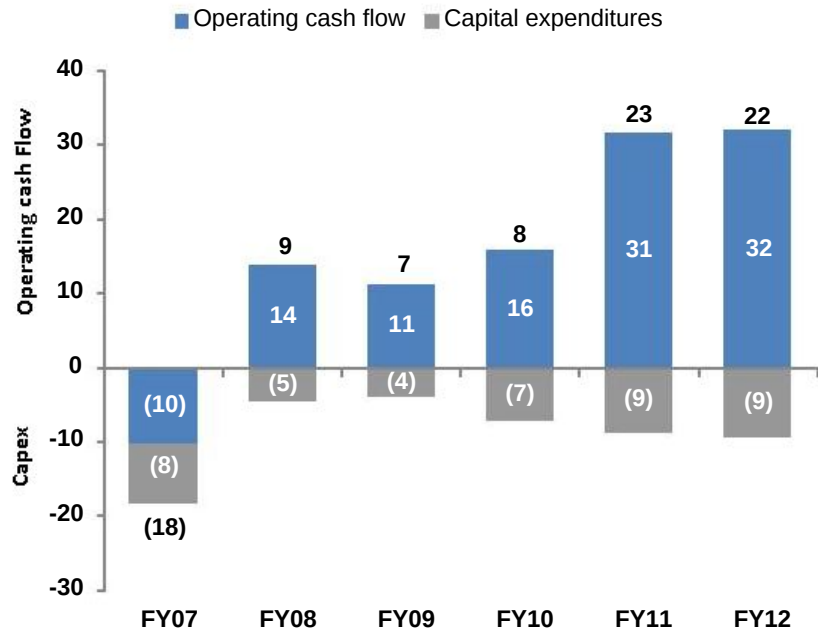
- FY08 figures are as reported in the Company's fiscal 2010 Form 10K. FY09-11 figures are as reported in the Company's fiscal 2011 Form 10K.
- Adjusted EBITDA excludes interest income and expense, income taxes, depreciation, amortization of acquired intangible assets, restructuring expense, impairment of long-lived assets, acquisition and other related expenses, fair value adjustments from purchase accounting, and stock-based compensation costs.

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Generating healthy free cash flow from operations

- Engineering and supply chain transformation
 - Engineering methods
 - Investments in DFM
 - Operational efficiencies
 - Reduced lead times
 - Improved cost of quality
 - Outsourced manufacturing
- Efficient working capital platform supports growth

Free Cash Flow \$M



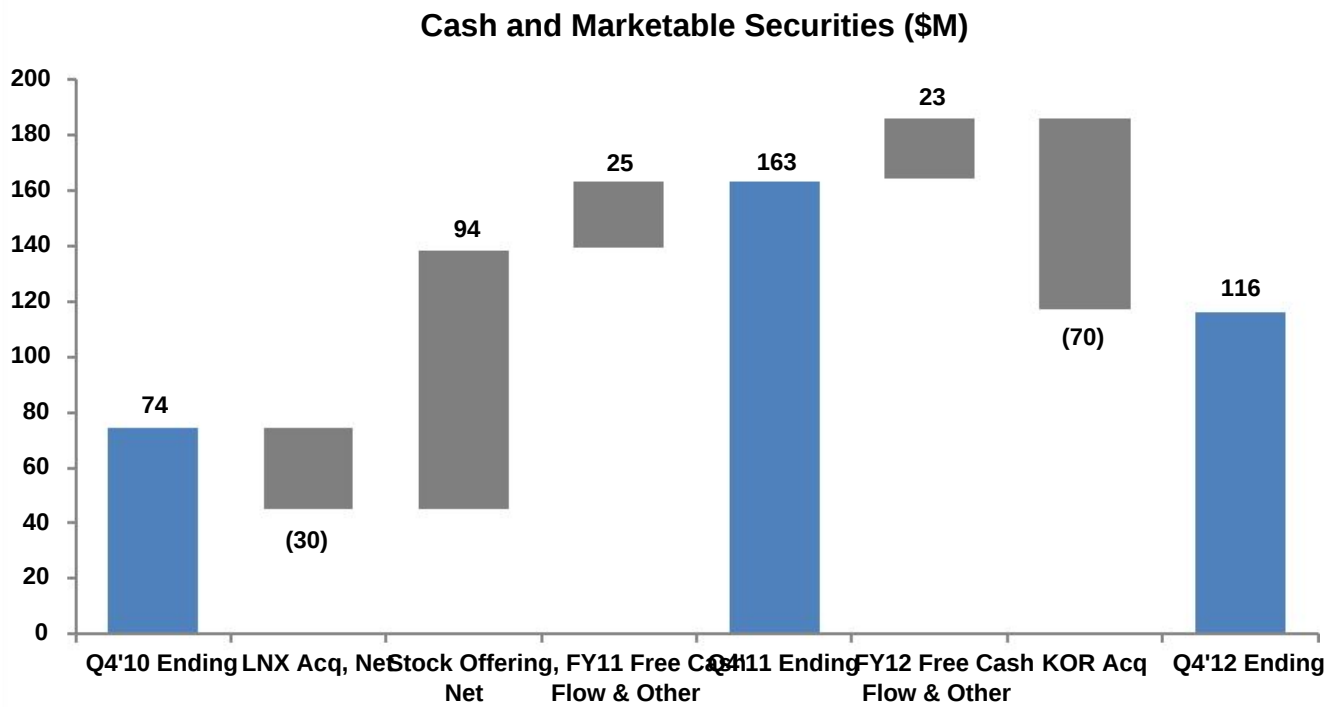
Note:

- Free cash flow is defined as cash provided by operating activities less capital expenditures.



Balance sheet poised for investment

No short and long term debt



Other financing sources available:

- \$500M Shelf Registration
- \$35M Operating line of credit (no drawdowns)

Achieved current target business model

- ACS : MFS revenue split 88% : 12% respectively
- High mix, low volume
- R&D delivering significant added value and returns
- Increased lower margin engineering services and systems integration
- Services-led design wins lead to long-term production subsystem annuity revenues

GAAP	FY08	FY09	FY10	FY11	FY12	Target Business Model
Revenue	100%	100%	100%	100%	100%	100%
Gross Margin	58%	56%	56%	57%	56%	54+%
SG&A and Other OPEX(1)	37%	29%	27%	26%	25%	Low-mid 20's
R&D	24%	22%	21%	19%	19%	High Teens
Operating Income	(3%)	4%	9%	11%	12%	12-13%
Adj. EBITDA	12%	12%	15%	18%	20%	17-18%

(1) Other OPEX includes Amortization of Acquired Intangible Assets, Impairment of Goodwill and Long Lived Assets, Change in the fair value of the liability related to the LNX earn-out, Restructuring, Gain on Sale of Long Lived Assets, and Acquisition Costs and Other Related Expenses.



FY12 year over year comparison (GAAP)

GAAP	FY12	FY11	Delta
Total Revenue (\$M)	245	229	7%
Defense Revenue (\$M)	230	180	27%
Gross Margin % Revenue	55.6%	56.8%	(1.2 pts)
Operating Expenses (\$M)	106	105	1
Operating Income (\$M) % Revenue	30 12.3%	25 10.9%	5 1.4 pts
Adj EBITDA	49	41	8
EPS (Continuing Operations)	\$0.75	\$0.71	\$0.04
Op Cash Flow (\$M)	32	31	1
Bookings	231	202	14%
Total Backlog (\$M)	105	87	20%
12-mo Backlog(\$M)	92	71	30%



Q1 FY13 guidance (excluding Micronetics)

	Q1 FY12 Actual	Quarter Ending September 30, 2012	
		Low	High
Revenue	\$49	\$51	\$57
GAAP EPS (Continuing)	\$0.09	(\$0.05)	\$0.00
Adj EBITDA	\$8.7	\$4.0	\$6.7
Note -Adj EBITDA Adjustments:			
Net income (Continuing)	2.7	(1.7)	0.0
Interest (income) expense, net	0.0	0.0	0.0
Income tax (benefit) expense	1.3	(0.9)	0.0
Depreciation	1.9	2.2	2.2
Amortization of acquired intangible assets	0.8	1.1	1.1
Acquisition costs and other related expenses	0.0	0.2	0.2
Restructuring expenses	0.0	0.4	0.4
Fair value adjustments from purchase accounting	0.0	0.0	0.0
Stock-based compensation cost	2.0	2.7	2.7
Adj EBITDA	\$8.7	\$4.0	\$6.7

Notes:

The guidance included herein is from the Company's earnings release and is as of the date of the earnings release. The Company is neither reconfirming such guidance as of the date of this presentation nor assuming any obligations to update or revise such guidance.

Guidance: Strong performance track record

	Non-GAAP GAAP	Q1		Q2		Q3		Q4	
		Reported	Guidance	Reported	Guidance	Reported	Guidance	Reported	Guidance
2008	Revenue (\$M)	49.2	48.0	52.6	51.0	56.5	53.0-55.0	55.2	53.0-56.0
	EPS (\$)	0.09	(0.08)	0.04	(0.05)	0.04	(0.04)-0.00	0.01	(0.05)-0.01
2009	Revenue (\$M)	49.1	47.0-49.0	50.7	47.0-49.0	50.6	48.0-50.0	48.4	46.0-48.0
	EPS (\$)	0.07	(0.07)-(0.03)	0.03	(0.05)-0.00	0.20	0.05-0.09	0.13	0.05-0.08
2010	Revenue (\$M)	47.4	43.0-45.0	45.2	40.0-42.0	43.6	41.0-43.0	63.6	58.0-60.0
	EPS (\$)	0.19	0.03-0.08	0.08	(0.08)-(0.04)	0.16	(0.15)-(0.11)	0.77	0.25-0.28
2011	Revenue (\$M)	52.1	48.0-50.0	55.5	54.0-55.0	59.9	58.0-60.0	61.2	57.0-59.0
	EPS (\$)	0.16	0.03-0.06	0.22	0.10-0.12	0.20	0.16-0.18	0.14	0.11-0.13
2012	Revenue (\$M)	49.1	54.0-56.0	68.0	67.0-69.0	67.0	65.0-68.0	60.9	60.0-66.0
	EPS (\$)	0.09	0.10-0.12	0.30	0.24-0.27	0.17	0.09-0.11	0.19	0.04-0.10
2013	Revenue (\$M)		51.0-57.0						
	EPS (\$)		(0.05)-0.00						

Notes:

The guidance included herein is from the Company's earnings release and is as of the date of the earnings release. The Company is neither reconfirming such guidance as of the date of this presentation nor assuming any obligations to update or revise such guidance.

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Updated business model raises Adjusted EBITDA Target

Changes to new model:

- New acquisitions and increased services lower gross margin
- Increased customer funded R&D from new acquisitions and lower SG&A more than offset gross margin decline
- Amortization addback to operating income increases Adjusted EBITDA target

GAAP	FY12	Historic Target Business Model	Current Target Business Model
Revenue	100%	100%	100%
Gross Margin	56%	54+%	45-50%
R&D	19%	High Teens	11-13%
SG&A and other OPEX ⁽¹⁾	25%	Low-mid 20's	Low 20's
Amortization ⁽²⁾	0%	—	2-3%
Income from Operations	12%	12-13%	12-13%
Adj EBITDA	20%	17-18%	18-22%

(1) Other OPEX includes, Impairment of Goodwill and Long Lived Assets, Change in the fair value of the liability related to the LNX earn-out, Restructuring, Gain on Sale of Long Lived Assets, and Acquisition Costs and Other Related Expenses.
 (2) Amortization includes fair value adjustment from purchase accounting and \$4.9M LNX earnout reversal in FY12.

Financial summary

- Defense revenue growth accelerated in FY12
- Profitability restored and improved
- Built increased levels of Adjusted EBITDA
- Converted earnings growth to healthy free cash flows
- Strong balance sheet with no debt
- Exceeded historic target model
- Established new target model with higher Adjusted EBITDA
- Prudently managing cost structure during challenging FY13



Appendix



Adjusted EBITDA reconciliation

(000'S)	Years Ended June 30,				
	2008	2009	2010	2011	2012
Income (loss) from continuing operations	\$ (4,437)	\$ 7,909	\$ 28,069	\$ 18,507	\$ 22,619
Interest expense (income), net	(3,129)	492	(151)	45	27
Income tax expense (benefit)	3,710	109	(9,377)	8,060	9,152
Depreciation	7,372	5,640	5,147	6,364	7,859
Amortization of acquired intangible assets	5,146	2,414	1,710	1,984	3,799
Restructuring	4,454	1,712	231	—	2,821
Impairment of long-lived assets	561	—	211	150	—
Acquisition costs and other related expenses	—	—	—	412	1,219
Fair value adjustments from purchase accounting	—	—	—	(219)	(5,238)
Stock-based compensation costs	8,848	4,582	4,016	5,580	6,616
Adjusted EBITDA	\$ 22,525	\$ 22,858	\$ 29,856	\$ 40,883	\$ 48,874



Free cash flow reconciliation

	Years Ended June					
	2007	2008	2009	2010	2011	2012
Cash flows from operating activities	\$ (10,313)	\$ 13,726	\$ 11,199	\$ 15,708	\$ 31,474	\$ 31,869
Capital expenditures	(8,109)	(4,625)	(4,126)	(7,334)	(8,825)	(9,427)
Free cash flow	<u>\$ (18,422)</u>	<u>\$ 9,101</u>	<u>\$ 7,073</u>	<u>\$ 8,374</u>	<u>\$ 22,649</u>	<u>\$ 22,442</u>

