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

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**FORM 8-K**

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**CURRENT REPORT**

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

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

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**Mercury Computer Systems, Inc.**

(Exact Name of Registrant as Specified in Charter)

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**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)

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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 February 7, 2012 at the Cowen & Company 33<sup>rd</sup> Annual 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 February 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: February 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 February 7, 2012.



**33<sup>rd</sup> Cowen & Company  
Annual Aerospace &  
Defense Conference**

**February 7, 2012**

**Mark Aslett  
President & CEO**

**Kevin Bisson  
SVP & CFO**



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# Forward-Looking Safe Harbor Statement

This presentation contains certain forward-looking statements, as that term is defined in the Private Securities Litigation Reform Act of 1995, including those relating to fiscal 2012 business performance and beyond 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," "plans," "expects," "anticipates," "continue," "estimate," "project," "intend," "likely," "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, 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, continued funding of defense programs, the timing of such funding, 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. In addition the use of a last twelve months ("LTM") period is not in accordance with GAAP. The LTM period presented is the mathematical addition of the results of the third and fourth quarters of fiscal 2011 and the first and second quarters of fiscal 2012. 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 Company's most recent earnings release, which can be found on our website at [www.mc.com/investor](http://www.mc.com/investor).



# 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
- \$229M FY11 revenues; 18% Adj. EBITDA margin; 730+ employees
- LTM Defense revenue ~87%, 61% growth (13% CAGR) FY07–FY11

Best-of-breed provider of open, commercially developed application ready and multi-INT subsystems for the ISR market



## Defense industry turning the page on a decade of war

- FY12 Defense budget approved \$525B base spending
- FY13 Defense budget request announced \$523B base spending
- Budget Control Act reduced FYDP spend growth vs 2012 request
- Budget Control Act Jan 2013 sequester on hold for now
- New roles and missions will likely be manifested in FY13 budget

Slower growth in defense spending anticipated over next 5 years





In the near term we believe the industry is entering an 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
- 2012 election year

...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 and 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

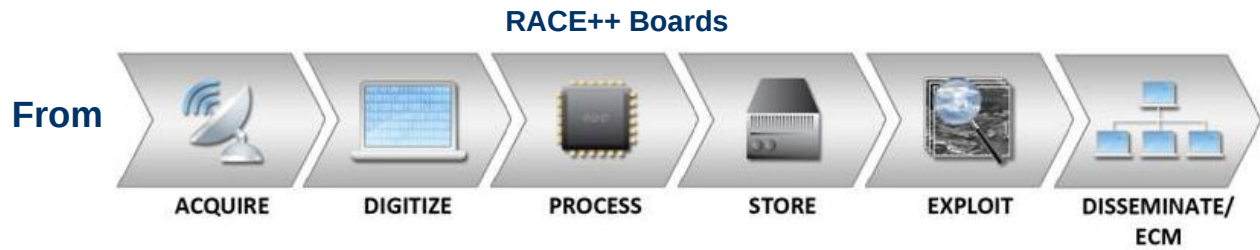


## Growth strategy summary

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

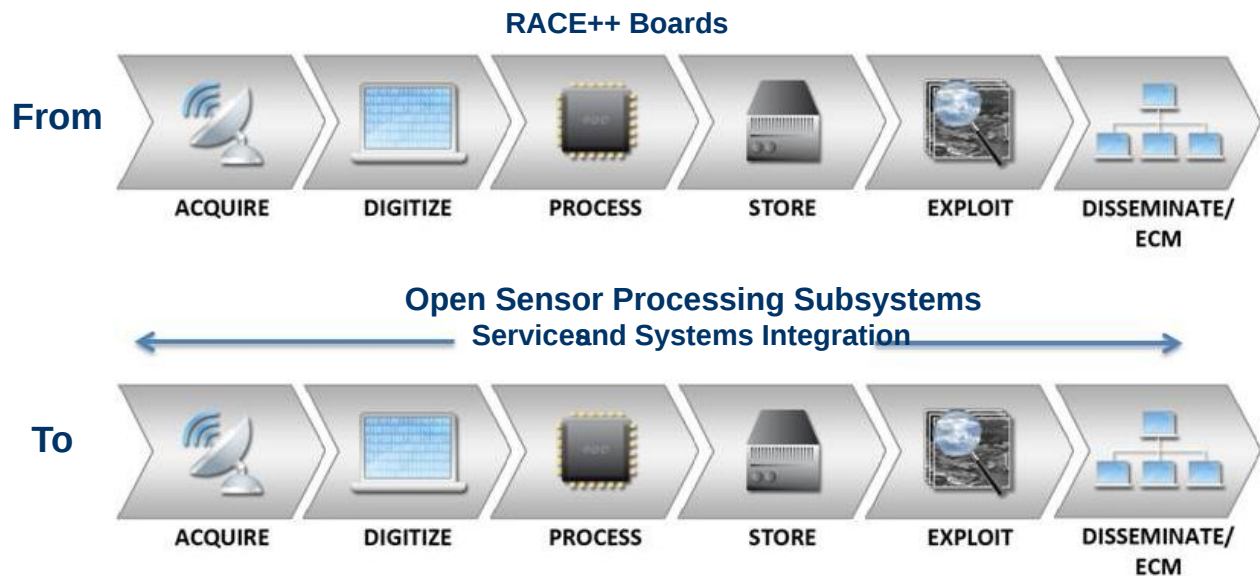
Historically, Mercury focused on one element of sensor chain



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**



**\$9,695M**  
**25%**

... 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



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**

NATIONAL SECURITY AGENCY  
UNITED STATES OF AMERICA

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**RADAR**



**EW**



**EO/IR -C4I**





# FY13 program growth driver update



## **Aegis: Ballistic Missile Defense**

*Well-defined upgrade provides foundational revenue*



## **Patriot: Missile Defense**

*Potential U.S. Army upgrades beginning in GFY13*



## **SEWIP: Naval Electronic Warfare**

*LRIP begins GFY13*



## **JCREW: Counter-IED**

*LRIP up to 1,350 systems beginning GFY13*



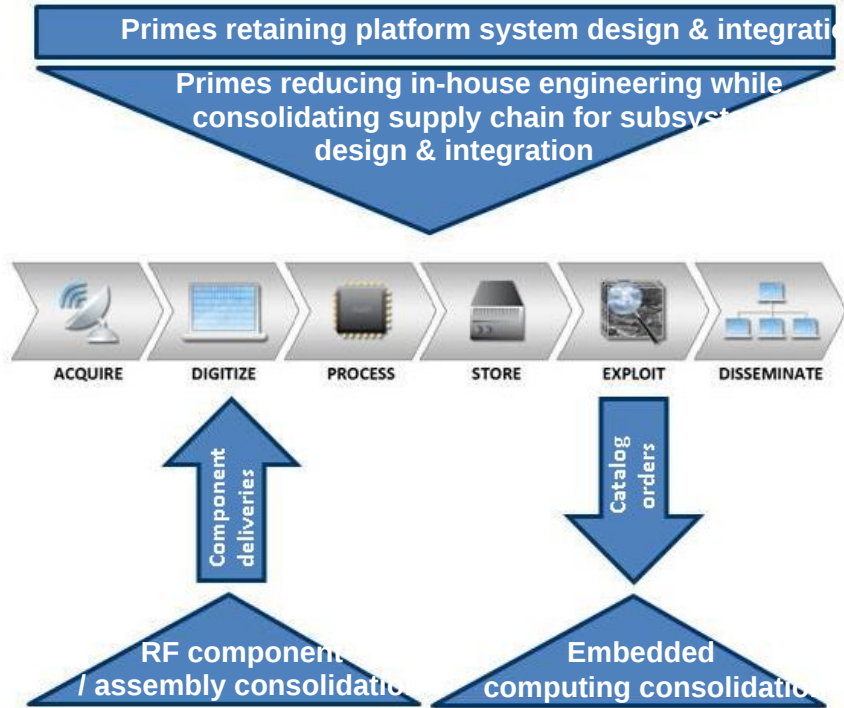
## **Gorgon Stare: Wide-area airborne surveillance**

*Received \$18M for Increment 2 development*



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

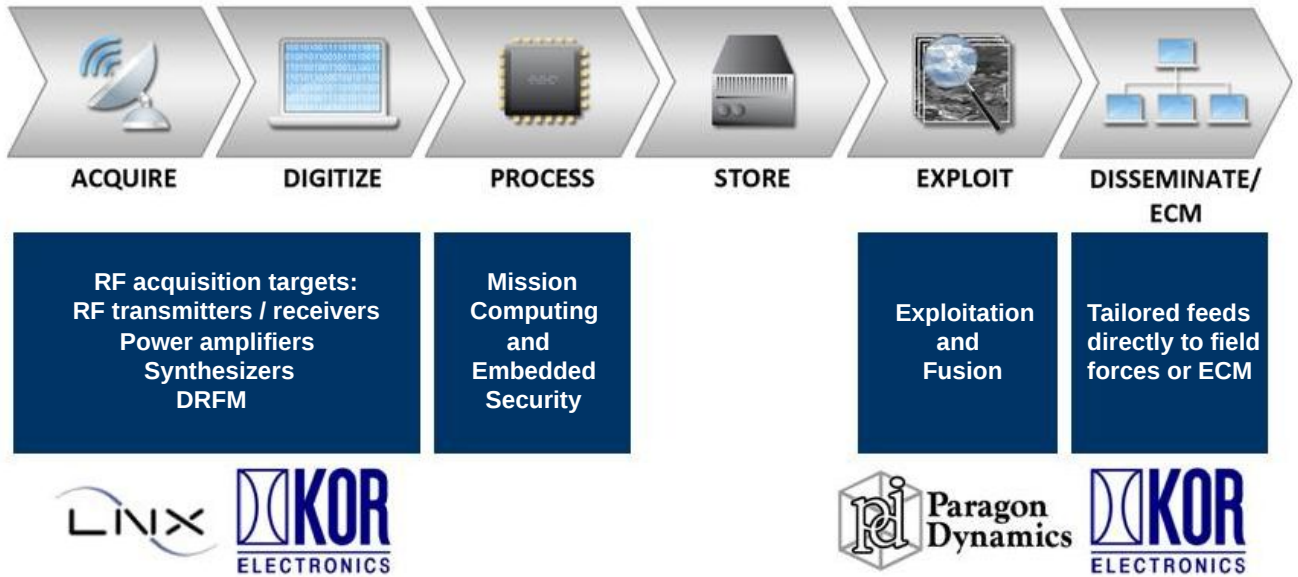
- Reduce risk given firm-fixed price contracts
- Address high-fixed cost operating model
- Increase success rate on new programs and production recompetes
- Develop differentiated, more affordable solutions with fewer internal R&D dollars
- Compress upgrade development and deployment cycles
- Consolidate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



Mercury has strategically positioned its business to help

We are developing capabilities organically and are looking to supplement that through acquisitions

### ACS and MFS Acquisition Target Areas



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



## 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

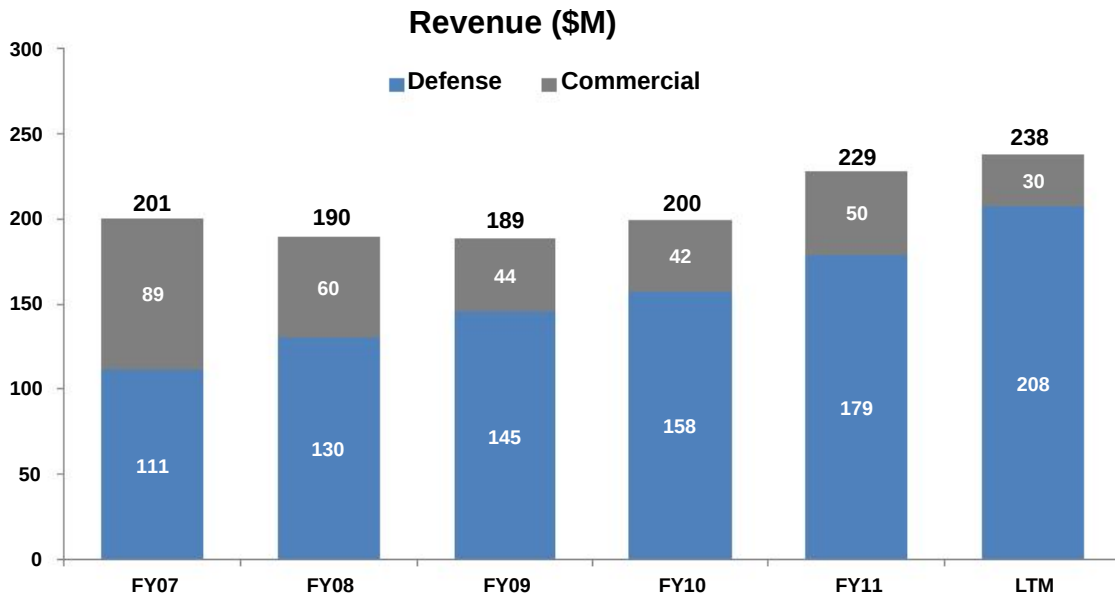




## Financial Overview



# Defense revenue growth accelerating



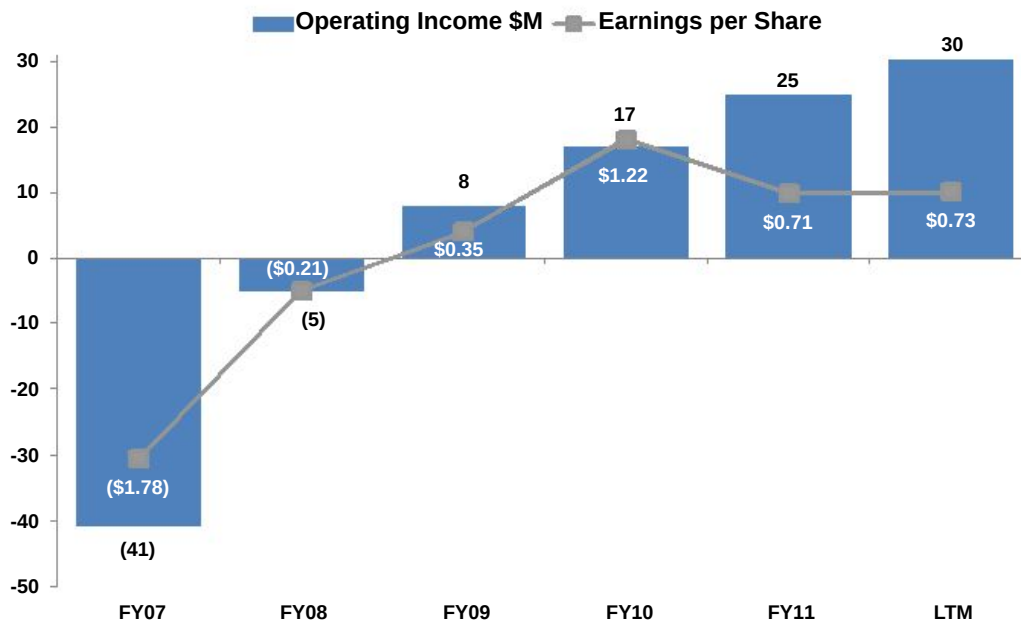
Notes:

- FY07-10 figures adjusted for discontinued operations.

Defense: 13% CAGR FY07-11; 14% growth in FY11



# Profitability restored and improving

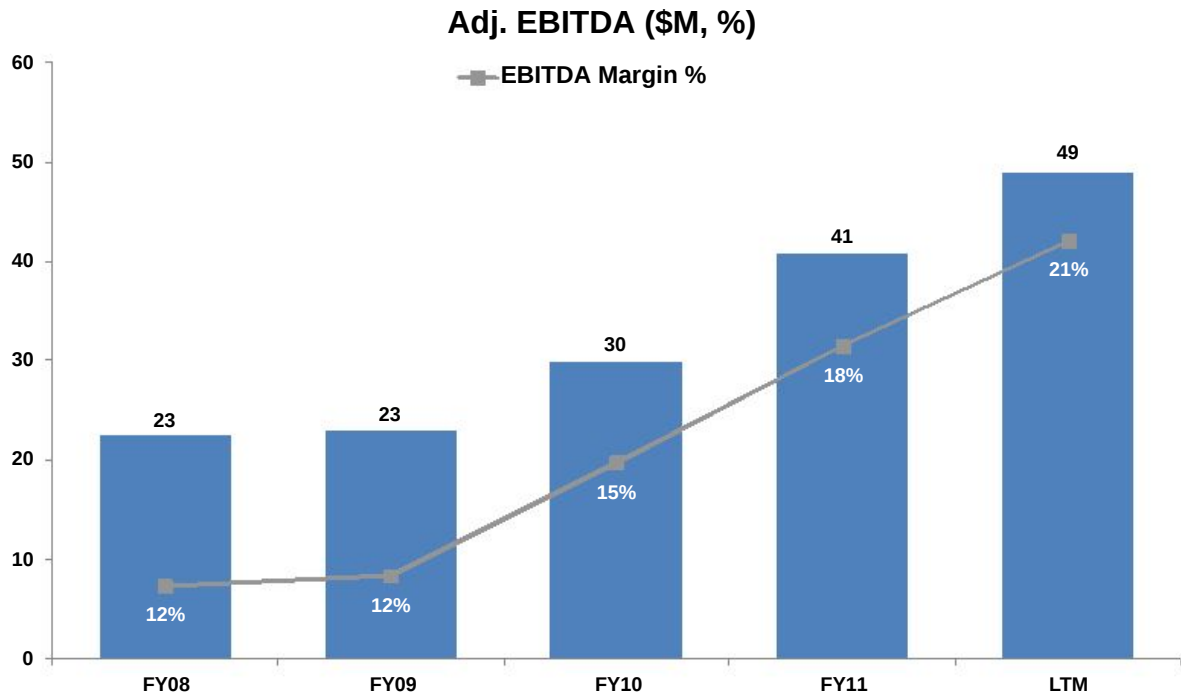


**Notes:**

- FY07 figures are as reported in the Company's fiscal 2007 form 10K and have not been restated for discontinued operations.
- FY08 -FY11 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%. Benefit calculation takes tax credit of \$15.6M/23M shares.
- FY11 and LTM EPS includes the impact of 5.6M additional shares from our follow-on public stock offering on February 16, 2011.



# Adjusted EBITDA at pro forma target



**Notes:**

- FY08 figures are as reported in the Company's fiscal 2010 Form 10K. FY09-11 figures are 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, and stock-based compensation costs.

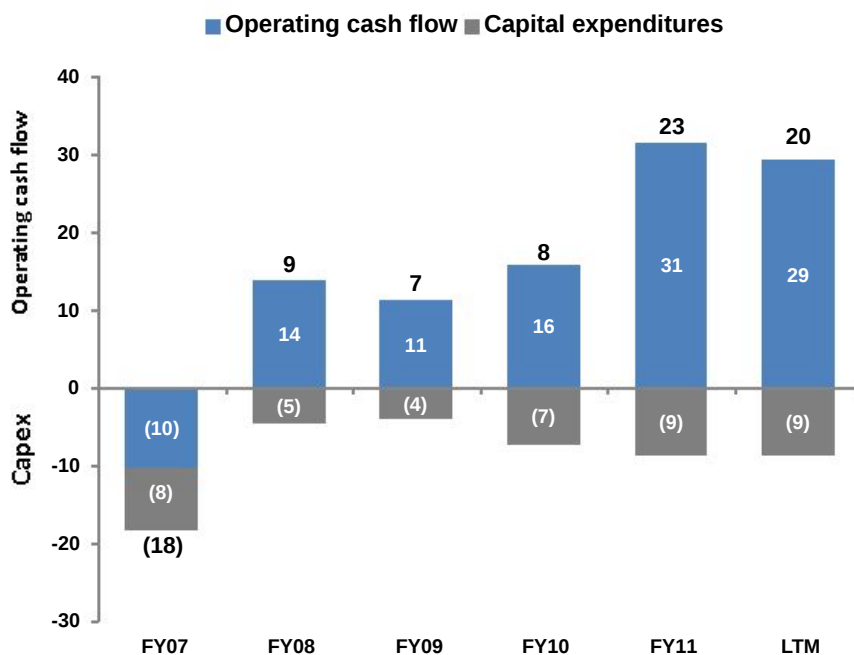




# Generating healthy free cash flow from operations

- 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)



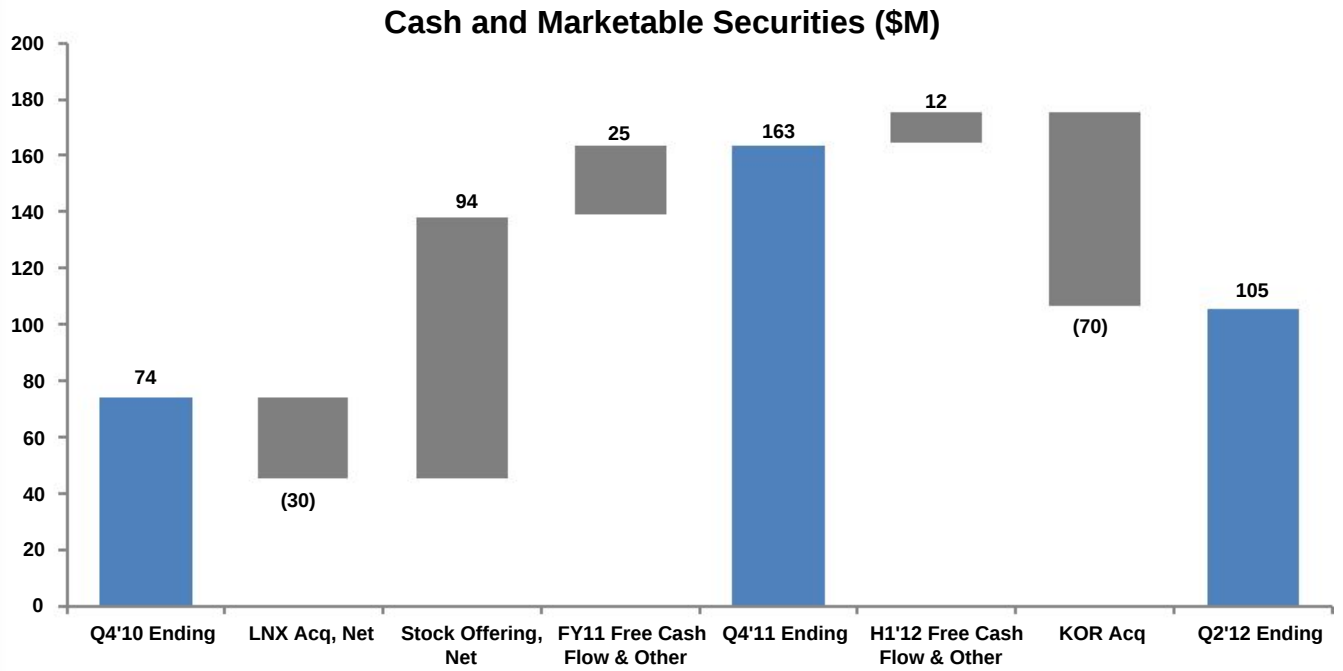
**Note:**

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



# Balance sheet poised for investment

## Zero short and long term debt



**Other financing sources available:**

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



## Performing at target business model

- ACS : MFS LTM revenue split 94% : 6% 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	LTM	Target Business Model
Revenue	100%	100%	100%	100%	100%	100%
Gross Margin	58%	56%	56%	57%	58%	54+%
SG&A and Other OPEX(1)	37%	29%	27%	26%	26%	Low-mid 20's
R&D	24%	22%	21%	19%	20%	High Teens
Operating Income	(3%)	4%	9%	11%	13%	12-13%
Adj. EBITDA	12%	12%	15%	18%	21%	17-18%

(1) Other OPEX includes Amortization of Acquired Intangible Assets, Impairment of Goodwill and Long Lived Assets, Restructuring, Gain on Sale of Long Lived Assets, and Acquisition Costs and Other Related Expenses.



# H1 FY12 year over year comparison (GAAP)

GAAP	H1 FY12	H1 FY11	Delta
Revenue (\$M)	117	108	9%
Gross Margin % Revenue	60.5%	57.9%	260 bps
Operating Expenses (\$M)	54	51	3
Operating Income (\$M) % Revenue	17 14.6%	12 10.9%	5 3.7 pts
Adj EBITDA	28	20	8
EPS (Continuing Operations)	\$0.39	\$0.37	\$0.02
Op Cash Flow (\$M)	15	17	(2)
Bookings	121	100	21%
Total Backlog (\$M)	123	97	27%
12-mo Backlog(\$M)	109	82	32%

Notes:

- H1 FY12 tax rate 34%, H1 FY11 tax rate 30%



## Q3 FY12 guidance

	Q3 FY11 Actual	Quarter Ending March 31, 2012	
		Low	High
<b>Revenue</b>	<b>\$60</b>	<b>\$65</b>	<b>\$68</b>
<b>GAAP EPS (Continuing)</b>	<b>\$0.20</b>	<b>\$0.09</b>	<b>\$0.11</b>
<b>Adj EBITDA</b>	<b>\$11.3</b>	<b>\$9.1</b>	<b>\$10.1</b>
<b>Note -Adj EBITDA Adjustments:</b>			
<b>Net income (Continuing)</b>	<b>5.4</b>	<b>2.8</b>	<b>3.4</b>
Interest (income) expense, net	0.0	0.0	0.0
Income tax (benefit) expense	2.0	1.4	1.8
Depreciation	1.7	2.2	2.2
Amortization of acquired intangible assets	0.7	1.3	1.3
Restructuring	0.0	0.0	0.0
Impairment of long-lived assets	0.0	0.0	0.0
Acquisition related cost	0.1	0.0	0.0
Fair value adjustments from purchase accounting	0.1	0.0	0.0
Stock-based compensation cost	1.3	1.4	1.4
<b>Adj EBITDA</b>	<b>\$11.3</b>	<b>\$9.1</b>	<b>\$10.1</b>

Notes:

- Fiscal 2011 and 2012 EPS includes the impact of 5.6M additional shares from our follow-on public stock offering on February 16, 2011.



## FY12 financial guidance

- Revenue growth of 10%
- Gross margin approximating 55%
- Adjusted EBITDA of 18%
- GAAP EPS of \$0.59 to \$0.61 per share



## 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		65.0-68.0		
	EPS (\$)	0.09	0.10-0.12	0.30	0.24-0.27		0.09-0.11		



## Financial summary

- Strong bookings growth and rebuilding backlog
- Defense revenue growth accelerating
- Profitability restored and improving
- Generating healthy free cash flows from operations
- Scalable working capital platform
- Strong balance sheet with no debt
- Performing at target business model







## Appendix



# Adjusted EBITDA reconciliation

(000'S)	Years Ended June				
	2008	2009	2010	2011	LTM
Income (loss) from continuing operations	\$ (4,437)	\$ 7,909	\$ 28,069	\$ 18,507	21,340
Interest expense (income), net	(3,129)	492	(151)	45	9
Income tax expense (benefit)	3,710	109	(9,377)	8,060	10,429
Depreciation	7,372	5,640	5,147	6,364	7,144
Amortization of acquired intangible assets	5,146	2,414	1,710	1,984	2,856
Restructuring	4,454	1,712	231	—	—
Impairment of long-lived assets	561	—	211	150	150
Acquisition costs and other related expenses	—	—	—	412	723
Fair value adjustments from purchase accounting	—	—	—	(219)	(241)
Stock-based compensation costs	8,848	4,582	4,016	5,580	6,509
Adjusted EBITDA	\$ 22,525	\$ 22,858	\$ 29,856	\$ 40,883	48,919



# Free cash flow reconciliation

	Years Ended Jun <del>9</del>					LTM
	2007	2008	2009	2010	2011	
Cash flows from operating activities	\$ (10,313)	\$ 13,726	\$ 11,199	\$ 15,708	\$ 31,474	\$ 29,268
Capital expenditures	(8,109)	(4,625)	(4,126)	(7,334)	(8,825)	(8,798)
Free cash flow	<u>\$ (18,422)</u>	<u>\$ 9,101</u>	<u>\$ 7,073</u>	<u>\$ 8,374</u>	<u>\$ 22,649</u>	<u>\$ 20,470</u>

