

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

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

**November 8, 2005**

*Date of Report (Date of earliest event reported)*



**EMCORE CORPORATION**

*Exact name of registrant as specified in its charter*

**New Jersey**

*State of Incorporation*

**0-22175**

*Commission File Number*

**22-2746503**

*IRS Employer Identification No.*

**145 Belmont Drive, Somerset, New Jersey, 08873**

*Address of principal executive offices, including Zip Code*

**(732) 271-9090**

*Registrant's telephone number, including area code*

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:

- ☐ 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))
-

**Item 7.01.                      Regulation FD Disclosure.**

EMCORE Corporation ("EMCORE" or the "Registrant") plans to attend the AeA Classic investor conference in San Diego, CA on November 8, 2005. A copy of EMCORE's presentation is attached as Exhibit 99.1 to this Current Report.

The information in this Current Report, including Exhibit 99.1 hereto, shall not be incorporated by reference into any filing of the Registrant, whether made before or after the date hereof, regardless of any general incorporation language in such filing, unless expressly incorporated by specific reference to such filing. Furthermore, the information in this Current Report, including Exhibit 99.1 hereto, shall not be deemed to be "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or otherwise be subject to the liabilities of that section or Sections 11 and 12(a)(2) of the Securities Act of 1933, as amended.

**Item 9.01.                      Financial Statements and Exhibits.**

**(c) Exhibits**

**Exhibit No.   Description**

[99.1](#)      EMCORE Corporation's Presentation for the AeA Classic Investor Conference, dated November 8, 2005.

**SIGNATURE**

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 hereunto duly authorized.

**EMCORE CORPORATION**

By: /s/ Thomas G. Werthan

Thomas G. Werthan  
Chief Financial Officer

Dated:      November 8, 2005

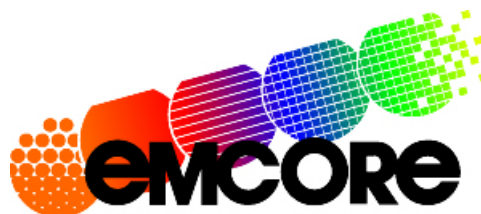
---

## **EXHIBIT INDEX**

<b><u>Exhibit No.</u></b>	<b><u>Description</u></b>
---------------------------	---------------------------

<a href="#"><u>99.1</u></a>	EMCORE Corporation's Presentation for the AeA Classic Investor Conference, dated November 8, 2005.
-----------------------------	--

---



**AeA Classic Presentation, November 8, 2005**

## Slide 1



1111

November 7, 2005

## Emcore Company Overview

**"A Communications Solutions Company"**

**AeA Classic, San Diego, November 8-9, 2005**

**Reuben F. Richards, Jr. Chief Executive Officer**

**Tom Werthan Chief Financial Officer**

EMCORE Corporation Confidential





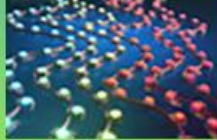
1

2J 55270-Weil and CIBC 2003

## Slide 2

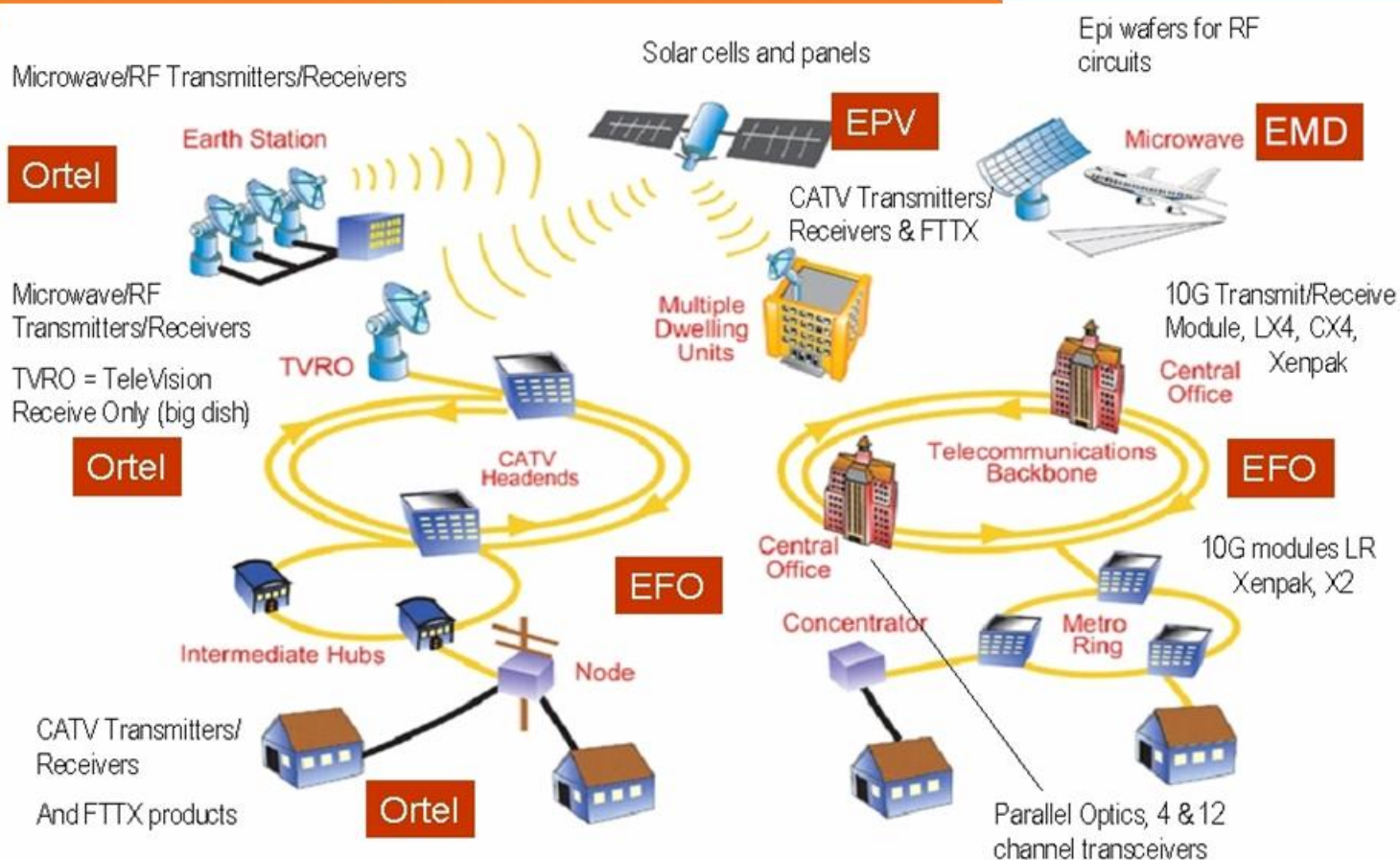
The information provided herein may include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 relating to future events that involve risks and uncertainties, including but not limited to EMCORE's projected financial results for the fourth quarter of fiscal 2005, year end results for fiscal 2005 and estimates for fiscal 2006. Actual operating results may differ materially from such forward-looking statements and are subject to certain risks, including risks arising from: changes in accounting treatment for items that are still under review; cancellations, rescheduling or delays in product shipments; manufacturing capacity constraints; lengthy sales and qualification cycles; difficulties in the production process; changes in semiconductor industry growth, increased competition, delays in developing and commercializing new products, and other factors described in EMCORE's filings with the Securities and Exchange Commission. The forward-looking statements contained in this release are made as of the date hereof and EMCORE does not assume any obligation to update the reasons why actual results could differ materially from those projected in the forward-looking statements.

**EMCORE is a full service provider of communications solutions over all forms of media: copper, fiber, wireless and satellite**

Electronic Materials	Digital Fiber Optics	Ortel Fiber Optics	Solar Panels	Lighting JV with GE - GELcore
<p>Foundry-based RF Materials / Transistors for Wireless</p> 	 <p>Data / Telecom Die / Modules / Subsystems</p>	<p>Data / Telecom Analog CATV Die / Modules / Subsystems</p> 	 <p>Wafers / Devices Panels</p> <p>Alternative Energy, Terrestrial Applications</p>	<p>LED Signals LED Channel Lighting LED Overhead Lighting</p> 



# Network Overview

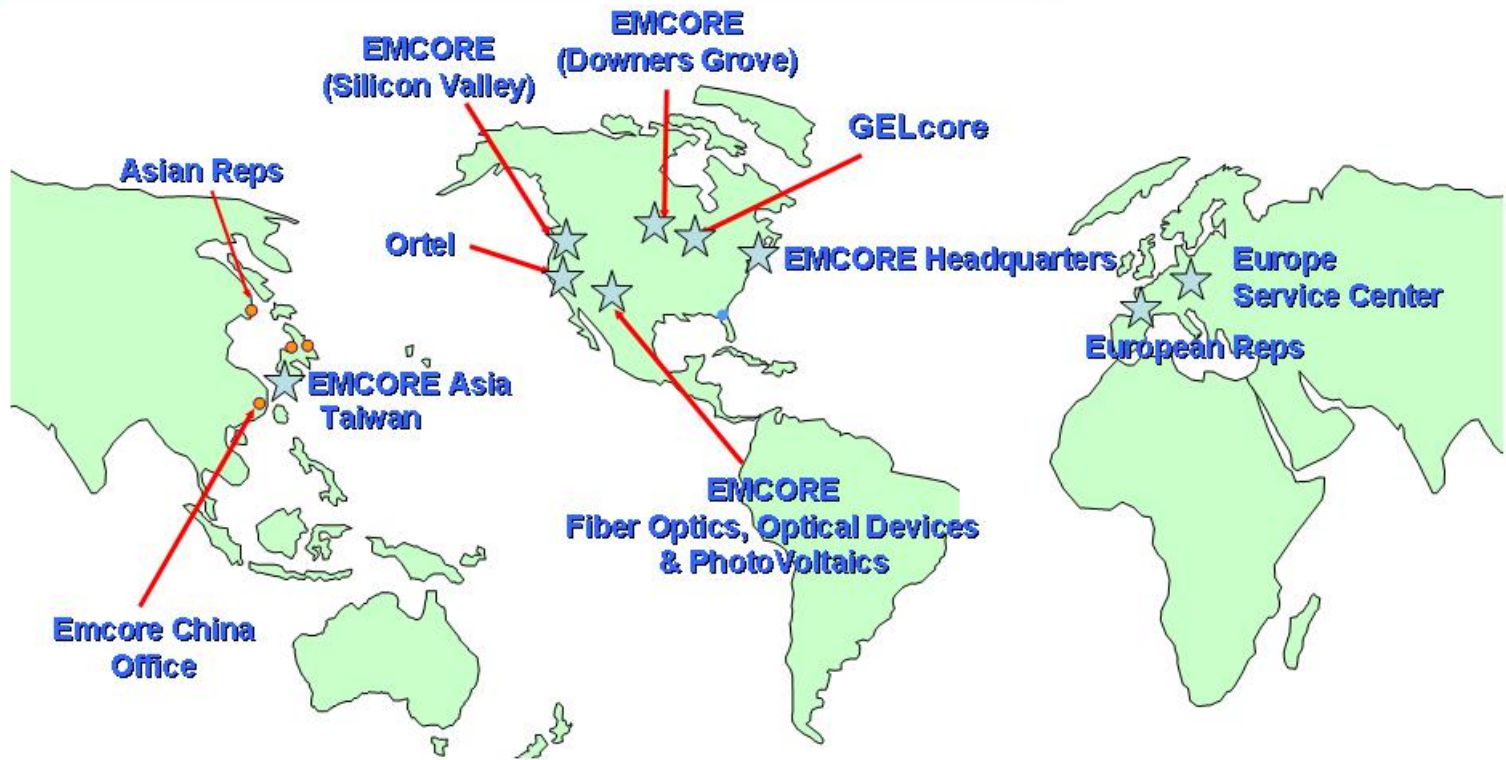


EMCORE Corporation Confidential

November 7, 2005

4

Slide 5





# Recent Customers and Partnerships



Agilent Technologies



EMCORE Corporation Confidential

November 7, 2005

6

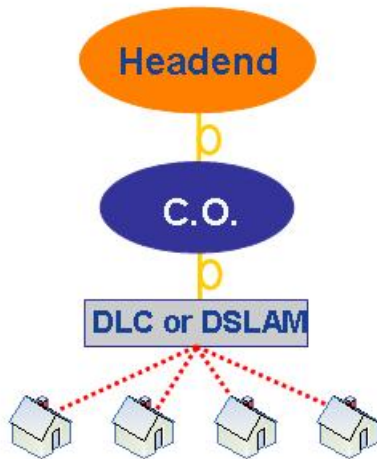
Slide 7

# Ortel's FTTx Opportunity



"Fiber-to-the-Node"

\$4-6B Investment through '09



20x faster than DSL and 6x faster than cable modems

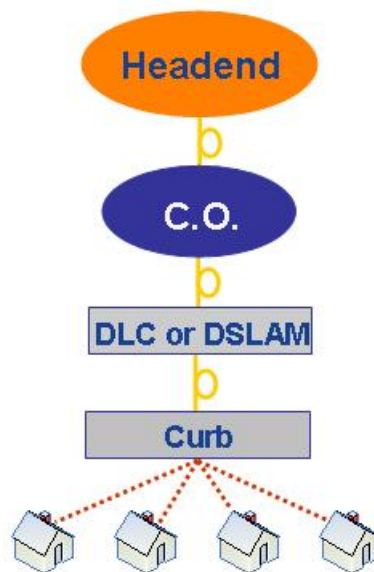
~500 Homes Per DSLAM

Betting on as yet unknown services

(Movie Downloads, CAMs)



"Fiber-to-the-Curb"



Copper from Nodes

~8 Homes Served Per Curb

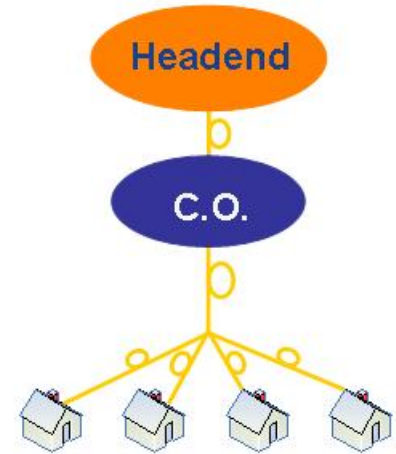
(New technology to speed service, Data Compression extending the life of copper)

EMCORE Corporation Confidential



"Fiber-to-the-Home"

\$2.5B thru '05 Reaching 73M homes



Infrastructure dollars expended =

**Revenue for Ortel**




~32 Homes Served

— Fiber Cable  
..... Copper Cable

November 7, 2005

7

- 10 Gbs Ethernet Market is expected to experience a CAGR of >100% over the next 4 years to a market >\$100M.\*
- EMCORE's 850nm VCSEL based components are the current market leader, and supply a low cost basis for EMCORE's module business
- EMCORE 10Gbs products lead market: LX4, CX4, Smartlink™, and 10G TOSAs
- EMCORE parallel optical module for switch, router and HPC applications leads market.

Smartlink™	LX4	CX4	10G TOSA
			

## Market

- Satellite power systems

## Customers

- Space Systems / Loral
- Lockheed Martin
- Boeing

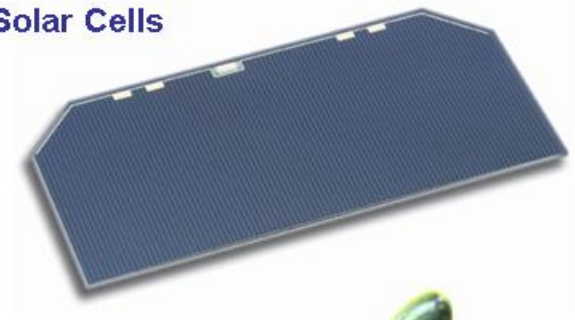
## Products

- 28% efficiency triple junction solar cell
- Integrated Diodes for on Orbit Reliability
- Equivalent cost per watt vs. silicon

## New Products

- Lower cost per watt vs. silicon
- 28.5% efficiency solar cells
- Solar concentrators for terrestrial use
- Lower cost per watt vs. silicon

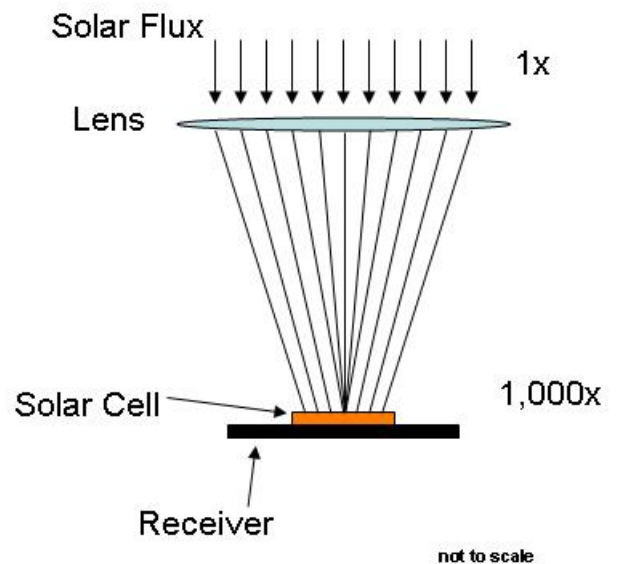
Solar Cells



Solar Panels



- EMCORE's triple junction solar cell technology is being adapted to terrestrial power generation
- Target market is grid-tied utility scale power production via solar concentrator systems, multi-unit dwellings where geography is an issue
- Lens concentrates solar flux to 500 – 1,000 times normal irradiance
  - Key to cost competitiveness with silicon
- Conversion efficiency improves under concentrated illumination
  - 35% cell efficiency attained
  - Silicon peaks out at ~20%



## Highlights

- CY 2004, ~\$70 million in revenues, profitable
- Cash flow positive
- Estimate of \$80 million for CY 2005
- Transfer of work to Mexico from Canada completed, return to profitability in the September 2005 quarter

## LED Signals

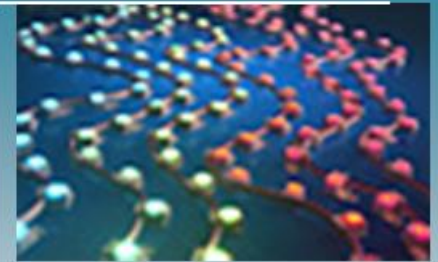
- Complete technology integration
- Electronics, optics, and high brightness LED technology

## LED Channel Lighting

- High efficiency neon alternative
- Rapid return on investment
- Lower operating and maintenance costs

## New Market

- Commercial Refrigeration





# Financial Highlights



## ■ Key metrics last 4 quarters:

	<u>Sept 04</u>	<u>Dec 04</u>	<u>Mar 05</u>	<u>June 05</u>
■ Gross margin	4%	8%	18%	20%
■ Adj.EBITDA	(\$6.5)	(\$4.7)	+\$03	+\$0.5

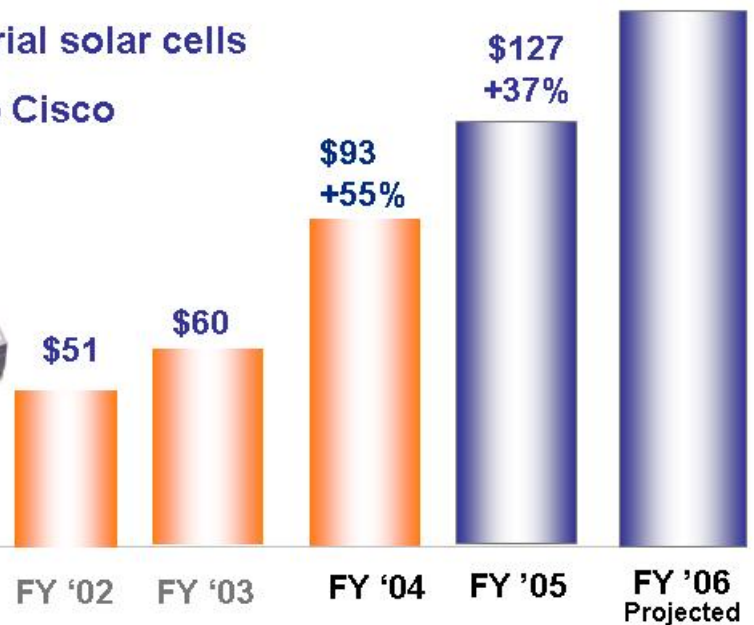
## ■ Photovoltaics-Inroads on terrestrial solar cells

## ■ Still sole LX-4 & CX-4 provider to Cisco

## ■ FTTX design win



(\$ in millions)



EMCORE Corporation Confidential

November 7, 2005

12

## ■ Fiscal Year 2005:

- 12 month revenues of \$127.6 million, increase of 37% y/y, virtually all organic growth
- September quarter, revenues of \$37 million, increase of 45% y/y and 11% seq.
- Adj. EBITDA positive results, final 3 quarters of fiscal 2005, cash generated in fiscal 4<sup>th</sup> quarter
- Backlog increased to \$40.3 million at year-end, an increase of 17%

## ■ Major events, FY 2005

- Spin-out of GaN technology group into Velox Semiconductor, raising \$6 million
  - Emcore maintains ~20% equity stake
  - Operating expenses decreasing ~\$1.2 million annually
- Announced closing of COI facility, and subsequent re-opening due to receipt of \$8+ million contract
  - Consolidation to Albuquerque, NM
  - Estimated cost savings of \$3 million annually after shut down costs

## ■ Increasing revenue guidance for December quarter to \$39 million

