

ADVANCED POWER TECHNOLOGY INC  
Form 425  
February 22, 2006

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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 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 22, 2006

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**MICROSEMI CORPORATION**

(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction  
of incorporation)

**0-8866**  
(Commission File Number)

**95-2110371**  
(IRS Employer  
Identification No.)

**2381 Morse Avenue, Irvine, California**  
(Address of principal executive offices)

**92614**  
(Zip Code)

Registrant's telephone number, including area code

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(949) 221-7100

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(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:

- 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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INTRODUCTION

This Form 8-K is filed pursuant to Rules 165 and 425 promulgated under the Securities Act of 1933, as amended. Pursuant to Rule 425, the Exhibits filed herewith and incorporated by reference shall be deemed filed with, rather than furnished to, the Securities and Exchange Commission ( SEC ).

Microsemi Corporation (the Registrant ) has filed a registration statement (Reg. No. 333-130655), including a prospectus, with the SEC for the acquisition of Advanced Power Technology, Inc., a Delaware corporation ( APT ), to which the Exhibits filed herewith relate. Before you invest, you should read the prospectus in that registration statement and other documents the Registrant or APT has filed with the SEC. You may get these documents for free by visiting EDGAR on the SEC Web Site at [www.sec.gov](http://www.sec.gov). Alternatively, the Registrant will arrange to send you the prospectus if you request it by calling 949-221-7101.

INFORMATION TO BE INCLUDED IN THE REPORT

Section 8 Other Events

**Item 8.01 Other Events**

On February 22, 2006, the Registrant and APT issued separate news releases concerning a long-term contractual relationship between APT and the Electronic Systems sector of Northrop Grumman Corporation regarding advanced silicon carbide ( SiC ) technology. The Registrant expects to acquire APT.

A copy of the news release issued by the Registrant is attached as Exhibit 99.1 to this report and is incorporated herein by this reference. A copy of the news release issued by APT is attached as Exhibit 99.2 to this report and is incorporated herein by this reference.

Section 9 Financial Statements and Exhibits

**Item 9.01 Financial Statements and Exhibits.**

<u>Exhibit No.</u>	<u>Description</u>
99.1	News Release of Microsemi Corporation, dated February 22, 2006.
99.2	News Release of Advanced Power Technology, Inc., dated February 22, 2006.

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

MICROSEMI CORPORATION

(Registrant)

Date: February 22, 2006

/s/ DAVID R. SONKSEN  
David R. Sonksen  
Executive Vice President,  
Chief Financial Officer,  
Treasurer and Secretary

**EXHIBIT INDEX**

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