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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): December 6, 2004**

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**MONOLITHIC POWER SYSTEMS, INC.**

(Exact name of Registrant as specified in its charter)

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

**000-51026**  
(Commission File Number)

**77-0466789**  
(I.R.S. Employer  
Identification Number)

**983 University Avenue, Building A**  
**Los Gatos, California 95032**  
(Address of principal executive offices) (Zip Code)

**(408) 357-6600**  
(Registrant's telephone number, including area code)

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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 8.01 Other Events**

The information contained in Item 8.01 of this Current Report is being filed pursuant to “Item 8.01 Other Events.”

On December 6, 2004, the Registrant issued a press release attached hereto as Exhibit 9.01(c)(1).

**Item 9.01 Financial Statements and Exhibits**

Item 9.01 (a) Inapplicable.

Item 9.01 (b) Inapplicable.

Item 9.01 (c) Exhibits.

<u>Exhibit</u>	<u>Description</u>
9.01(c)(1)	Press release issued on December 6, 2004.



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**Index to Exhibits**

<u>Exhibit</u>	<u>Description</u>
9.01(c)(1)	Press release issued on December 6, 2004.

**MONOLITHIC POWER SYSTEMS, INC. ANNOUNCES  
AMENDMENT TO MICREL COMPLAINT**

December 6, 2004, 6:00 am ET

**Los Gatos, California** – Monolithic Power Systems, Inc. (MPS) (NASDAQ: MPWR) today announced that Micrel, Incorporated (Micrel) has filed an amendment to its complaint against MPS.

In November 2004, Micrel sued us in the United States District Court for the Northern District of California alleging that our products infringe two of its patents. Michael Hsing, our Chief Executive Officer, and another of our employees are named inventors on both of Micrel's patents and Jim Moyer, our Chief Design Engineer, is a named inventor on one of them.

On November 29, 2004, Micrel filed an amended complaint adding causes of action for alleged statutory and common law misappropriation of Micrel's trade secrets, alleged breach of confidentiality agreements by Messrs. Hsing and Moyer (both former employees of Micrel), and alleged violation of California's Unfair Competition Law. The amended complaint also adds Messrs. Hsing and Moyer as defendants. Micrel's amended complaint adds requests for damages attributable to the alleged misappropriation of Micrel's trade secrets and alleged violation of the confidentiality agreements; for injunctive relief to prevent our future use of Micrel's alleged trade secrets; and for attorneys fees and costs.

Because the litigation is in a very preliminary stage, it is difficult to predict how it will proceed or what the ultimate outcome will be. We have, however, conducted an initial review of the Micrel patents and compared them with the manufacturing processes and design elements we use for our products. We have also conducted an initial review of the causes of action added by the amended complaint. Based on this initial review, we believe that we have meritorious defenses to all of Micrel's claims.

**About Monolithic Power Systems, Inc.:**

Monolithic Power Systems is an analog and mixed-signal semiconductor company that designs, develops and markets analog and mixed-signal semiconductors.

If you have any questions, please contact Tim Christoffersen at (408) 357-6777.