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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):  
January 25, 2005**

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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)

(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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**Item 1.01 Entry into a Material Definitive Agreement**

On January 25, 2005, Monolithic Power Systems, Inc. (the “Company”) entered into an agreement to settle its trade secret litigation with Linear Technology Corporation (“Linear”) to the mutual satisfaction of the parties. Such agreement was executed by the Company on January 21, 2005 and was countersigned and became an enforceable agreement on January 25, 2005. Pursuant to the agreement, Linear agreed to dismiss the case it had filed against the Company in the Superior Court for the State of California in Santa Clara County.

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**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, thereunto duly authorized.

January 31, 2005

By:

/s/ Tim Christoffersen

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**Tim Christoffersen,  
Chief Financial Officer and Secretary  
(Principal Financial and Accounting Officer and Duly  
Authorized Officer)**