

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934
or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Moyer James C</u> (Last) (First) (Middle) C/O MONOLITHIC POWER SYSTEMS, INC. 983 UNIVERSITY AVENUE, BUILDING A (Street) LOS GATOS CA 95032 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 11/18/2004	3. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC [MPWR]</u> 4. Relationship of Reporting Person(s) to Issuer (Check all applicable) ☒ Director ☒ 10% Owner ☒ Officer (give title below) Other (specify below) Chief Design Engineer 5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person ☒ Form filed by More than One Reporting Person
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Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	520,000	D	
Common Stock	270,000	D ⁽¹⁾	
Common Stock	250,000	I	By James C. Moyer 2004 Trust
Common Stock	250,000	I	By Frances K. Moyer 2004 Trust

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Stock Option (right to buy)	01/13/2005 ⁽²⁾	01/13/2014	Common Stock	200,000	5	D	
Series A Convertible Preferred Stock	(4)	08/08/1988	Common Stock	286,000	(5)	D ⁽³⁾	
Series B Convertible Preferred Stock	(4)	08/08/1988	Common Stock	285,068	(5)	D ⁽¹⁾	

1. Name and Address of Reporting Person* <u>Moyer James C</u> (Last) (First) (Middle) C/O MONOLITHIC POWER SYSTEMS, INC. 983 UNIVERSITY AVENUE, BUILDING A (Street) LOS GATOS CA 95032 (City) (State) (Zip)

1. Name and Address of Reporting Person *

Moyer Frances K

(Last) (First) (Middle)

6381 WISTERIA WAY

(Street)

SAN JOSE

CA

95129

(City)

(State)

(Zip)

Explanation of Responses:

1. Owner solely by Mr. Moyer.
2. 25% of the shares subject to the option vest on 1/13/05; balance vests monthly over 36 months.
3. 143,000 shares held in the name of First National Bank of Onaga FBO Frances K. Moyer and 143,000 shares held in the name of First National Bank of Onaga FBO James C. Moyer.
4. Immed
5. 1-for-1

/s/ James C. Moyer

11/18/2004

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

FORM 3 JOINT FILER INFORMATION

Name: Frances K. Moyer

Relationship to Issuer: 10% Beneficial Owner

Address: 6381 Wisteria Way
San Jose, CA 95129

Designated Filer: James C. Moyer

Date of Event Requiring Statement: 11/18/2004

Issuer Name and Ticker or Trading Symbol: Monolithic Power Systems, Inc. (MPWR)

Frances K. Moyer

Signature: /s/ Frances K. Moyer