

Moyer James C  
 Form 4  
 September 10, 2007

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
 Moyer James C

2. Issuer Name and Ticker or Trading Symbol  
 MONOLITHIC POWER SYSTEMS INC [MPWR]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
 6409 GUADALUPE MINES ROAD  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 09/06/2007

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 Chief IC Design Engineer

SAN JOSE, CA 95120

4. If Amendment, Date 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

(City) (State) (Zip)

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	V	Amount or Price				
Common Stock	09/06/2007		S <sup>(1)</sup>		200	D	\$ 20.7 321,444	I	by Moyer FamilyTrust
Common Stock	09/06/2007		S <sup>(1)</sup>		101	D	\$ 20.78 321,343	I	by Moyer FamilyTrust
Common Stock	09/06/2007		S <sup>(1)</sup>		99	D	\$ 20.8 321,244	I	by Moyer FamilyTrust
Common Stock	09/06/2007		S <sup>(1)</sup>		100	D	\$ 20.84 321,144	I	by Moyer FamilyTrust
Common Stock	09/06/2007		S <sup>(1)</sup>		100	D	\$ 20.85 321,044	I	by Moyer FamilyTrust

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Common Stock	09/06/2007	S <sup>(1)</sup>	400	D	\$ 20.86	320,644	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	350	D	\$ 20.87	320,294	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	200	D	\$ 20.89	320,094	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	600	D	\$ 20.91	319,494	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	500	D	\$ 20.92	318,994	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	600	D	\$ 20.93	318,394	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	300	D	\$ 20.94	318,094	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	100	D	\$ 20.95	317,994	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	100	D	\$ 20.96	317,894	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	100	D	\$ 21.02	317,794	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	384	D	\$ 21.08	317,410	I	by Moyer FamilyTrust
Common Stock	09/06/2007	S <sup>(1)</sup>	100	D	\$ 21.11	317,310	I	by Moyer FamilyTrust
Common Stock						890,569	D	
Common Stock						518,504	I	By Jointly w/Spouse

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

**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 control number.**

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo
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Disposed  
of (D)  
(Instr. 3,  
4, and 5)

Trans  
(Instr

Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
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## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Moyer James C 6409 GUADALUPE MINES ROAD SAN JOSE, CA 95120	X		Chief IC Design Engineer	

## Signatures

By: Rick Neely For: James Moyer  
Date: 09/10/2007

\_\_Signature of Reporting Person Date

## Explanation of Responses:

- \* If the form is filed by more than one reporting person, *see* Instruction 4(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).

(1) In accordance with the reporting person's 10b5-1 trading plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.