

Moyer James C  
 Form 4  
 September 10, 2007

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

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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**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.**

SEC 1474  
(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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