#### MONOLITHIC POWER SYSTEMS INC

Form 4

October 22, 2007

### FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB Number: 3235-0287

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005
Estimated average

**OMB APPROVAL** 

Form 4 or Form 5 obligations may continue. See Instruction

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

burden hours per response... 0.5

1(b).

(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) 6409 GUADA	(First)  LUPE MIN	(Middle) ES ROAD	3. Date of Earliest Transaction (Month/Day/Year) 10/22/2007	_X_ Director 10% Owner _X_ Officer (give title Other (specify below) below) Chief IC Design Engineer			
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person			
SAN JOSE, C	A 95120			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. Transactic Code (Instr. 8)	4. Securities Ador(A) or Disposed (Instr. 3, 4 and (A) or Amount (D)		d of (D)	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)		
Common Stock	10/22/2007		$S_{\underline{(1)}}$	100	D	\$ 22.06	257,210	I	by Moyer FamilyTrust		
Common Stock	10/22/2007		S <u>(1)</u>	100	D	\$ 22.3	257,110	I	by Moyer FamilyTrust		
Common Stock	10/22/2007		S(1)	100	D	\$ 22.37	257,010	I	by Moyer FamilyTrust		
Common Stock	10/22/2007		S <u>(1)</u>	100	D	\$ 22.7	256,910	I	by Moyer FamilyTrust		
Common Stock	10/22/2007		S(1)	100	D	\$ 22.71	256,810	I	by Moyer FamilyTrust		

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Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.72	256,710	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.75	256,610	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.77	256,510	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.78	256,410	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.8	256,310	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.88	256,210	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.94	256,110	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	200	D	\$ 22.96	255,910	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	200	D	\$ 22.98	255,710	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 22.99	255,610	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 23.02	255,510	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 23.03	255,410	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 23.05	255,310	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	200	D	\$ 23.07	255,110	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	900	D	\$ 23.08	254,210	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	1,100	D	\$ 23.09	253,110	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	600	D	\$ 23.1	252,510	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	300	D	\$ 23.11	252,210	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	100	D	\$ 23.12	252,110	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	300	D	\$ 23.13	251,810	I	by Moyer FamilyTrust
	10/22/2007	S(1)	200	D		251,610	I	

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Common Stock					\$ 23.14			by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	200	D	\$ 23.16	251,410	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	200	D	\$ 23.17	251,210	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	300	D	\$ 23.18	250,910	I	by Moyer FamilyTrust
Common Stock	10/22/2007	S <u>(1)</u>	300	D	\$ 23.19	250,610	I	by Moyer FamilyTrust

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)

> 9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.		5.	6. Date Exerc	cisable and	7. Tit	le and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transa	ctio	Number	Expiration D	ate	Amou	ınt of	Derivative
Security	or Exercise		any	Code		of	(Month/Day/	Year)	Unde	rlying	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr.	8)	Derivative	e		Secur	rities	(Instr. 5)
	Derivative					Securities			(Instr	. 3 and 4)	
	Security					Acquired					
	•					(A) or					
						Disposed					
						of (D)					
						(Instr. 3,					
						4, and 5)					
										Amount	
							Date	Expiration		or	
							Exercisable	Date	Title	Number	
							Lacroisdoic	Dute		of	
				Code	V	(A) (D)				Shares	

# **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: Adriana Chiocchi For: James Moyer 10/22/2007

Reporting Owners 3

\*\*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.

Signatures 4