

Moyer James C  
 Form 4  
 April 21, 2008

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

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

3. Date of Earliest Transaction (Month/Day/Year)  
 04/21/2008

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

SAN JOSE, CA 95120  
 (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	(A) or (D)	Price	
Common Stock	04/21/2008		S <sup>(1)</sup>		3,124	D	\$ 21.02	180,586 I by Moyer FamilyTrust
Common Stock	04/21/2008		S <sup>(1)</sup>		700	D	\$ 21.13	179,886 I by Moyer FamilyTrust
Common Stock	04/21/2008		S <sup>(1)</sup>		100	D	\$ 21.17	179,786 I by Moyer FamilyTrust
Common Stock	04/21/2008		S <sup>(1)</sup>		200	D	\$ 21.18	179,586 I by Moyer FamilyTrust
Common Stock	04/21/2008		S <sup>(1)</sup>		100	D	\$ 21.21	179,486 I by Moyer FamilyTrust

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Common Stock	04/21/2008	<u>S(1)</u>	300	D	\$ 21.22	179,186	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	400	D	\$ 21.23	178,786	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	500	D	\$ 21.24	178,286	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	300	D	\$ 21.25	177,986	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	400	D	\$ 21.27	177,586	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	450	D	\$ 21.28	177,136	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	900	D	\$ 21.29	176,236	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	300	D	\$ 21.3	175,936	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	100	D	\$ 21.31	175,836	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	100	D	\$ 21.33	175,736	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	100	D	\$ 21.34	175,636	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	100	D	\$ 21.38	175,536	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	101	D	\$ 21.39	175,435	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	200	D	\$ 21.5	175,235	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	600	D	\$ 21.51	174,635	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	100	D	\$ 21.53	174,535	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	100	D	\$ 21.62	174,435	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	325	D	\$ 21.66	174,110	I	by Moyer FamilyTrust
Common Stock	04/21/2008	<u>S(1)</u>	400	D	\$ 21.7	173,710	I	by Moyer FamilyTrust
Common Stock						890,569	D	
						518,504	I	

