FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
hours per response:	0.5							

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

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

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)  X Director 10% Owner  X Officer (give title Other (specify						
(Last) 983 UNIV	(First) (Middle) UNIVERSITY AVENUE, BUILDING A						3. Date of Earliest Transaction (Month/Day/Year) 05/09/2006											be	elow)	
(Street) LOS GAT (City)	LOS GATOS CA 95032				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person							
1. Title of S	Security (Ins		e I	- Non-Deriv	n 2	2A. De	eme	ed	3.		4. Securitie	s Acqui	red (A)	or	5. Amoui	nt of		nership	7. Nature of	
			Date (Month/Day/Y	'ear)   i	ear) Execution if any (Month/D			Transaction Code (Instr. 8)		Disposed C and 5)	f (D) (Instr. 3, 4		4 Securities Beneficia Owned Following		ally	Form: (D) or Indire (Instr.	ect (I)	Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D)	Price		Reported Transact (Instr. 3 a	ion(s)	ľ	ŕ	,	
Common Stock				05/09/2006		5			S		496	D D	\$1	7	239,088		I		by Moyer FamilyTrust	
Common	ommon Stock			05/10/2006		;			S		1,000		\$17.5		238,088		I		by Moyer FamilyTrust	
Common	Stock														1,361	,068		D		
Common	Stock														130,	208		I	By F. Moyer 04 Trust	
Common Stock														130,208		I		By J. Moy 04 Trust		
		Та	ble	II - Derivat (e.g., pu							osed of, convertib				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if a	Deemed cution Date, ny nth/Day/Year)	4. Transaction Code (Instr.		D D Sc A (A D of (I)	. Number f erivative ecurities cquired A) or isposed f (D) nstr. 3, 4	Expira (Mont	ation l	rcisable and Date /Year)				8. Price of Derivative Security (Instr. 5)	9. Numb derivati Securiti Benefic Owned Followi Reporte Transac (Instr. 4	ve ies ially ng ed ction(s)	Owners Form: Direct ( or India (I) (Inst	Benefic Owners ect (Instr. 4	
					Code	v	(A	A) (D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Shares	er						

Explanation of Responses:

James C. Moyer

05/10/2006

\*\* Signature of Reporting Person

Date

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

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.

 $<sup>^{\</sup>star}$  If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

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