FORM 4

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

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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

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

1. Name and Address of Reporting Person*  Moyer James C					2. Issuer Name and Ticker or Trading Symbol  MONOLITHIC POWER SYSTEMS INC  [ MPWR ]									(Ch	eck all appl	icable) or	,		‰ Owner	
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD					3. Date of Earliest Transaction (Month/Day/Year) 05/31/2007										X below	ow)				
(Street) SAN JOS (City)			5120 Zip)	- 4.	Line) X Form filed b												oint/Group Filing (Check Applicable d by One Reporting Person d by More than One Reporting			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Ye	ar) E	2A. Deemed Execution Date if any (Month/Day/Yea			te, T	3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)			nd	5. Amount Securities Beneficial Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership	
								c	ode	v	Amount	(A) or (D)	Price		Following Reported Transactio (Instr. 3 ar		(Instr. 4	1)	(Instr. 4)	
Common Stock		05/31/200	7				M		15,207	A	\$5		890,1	193 I		)				
Common Stock		05/31/200	07					S		9,124	D	\$16.85	85 <sup>(1)</sup> 881		69	D				
Common Stock															518,504		I		By Jointl w/Spouse	
Common Stock														326,094		I		by Moye FamilyTı		
		Ta	able II - Deriva (e.g., p								sposed of, , converti				Owned					
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)		nsaction de (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration I (Month/Day		Date	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		3	8. Price of Derivative Security (Instr. 5)	9. Num derivati Securit Benefic Owned Follow Report Transa (Instr. 4	ive ies cially ing ed ction(s)	10. Owners Form: Direct ( or India (I) (Inst	Benef O) Owner ect (Instr.	lirect ficial rship
			Code	e	v	(A)	(D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Shares	er							
Non- Qualified Stock Option (right to buy)	\$5	05/31/2007		М	М			15,207	01/13	3/2006	01/13/2014	Commor Stock	15,20	07	<b>\$</b> 0 99,		19,999 D			

## Explanation of Responses:

1. Average price per share

By: Rick Neely For: James C. Mover

\*\* Signature of Reporting Person Date

05/31/2007

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

- $^{\star}$  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).

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.