## 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

1. Name and Address of Reporting Person <sup>®</sup> Moyer James C				2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]										heck all ap	plicable) ctor		erson(s) to Issuer 10% Owner Other (specify		ər
(Last) 6409 GU	(Fir IADALUPE	<i>l</i> iddle)	3. Date of Earliest Transaction (Month/Day/Year) 08/28/2007									X belo	below)		belov Design Enginee		спу		
(City) (State) (Z			5120 Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)							Ĺir	X Form filed by One Reporting Person Form filed by More than One Reporting Person						
1 able			e I - NON-Deriv 2. Transaction Date (Month/Day/Year)	2A. De Executi if any	2A. Deemed Execution Date,		3. Trans Code 8)	actio	, 20 4.	4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 ar			A) or	5. Amo Securit Benefic Owned	unt of es ially	Form: (D) or Indire	ect (I)	7. Nature of Indirect Beneficial Ownership	
							Code	\	V A	Amount (A) or (D)		Price		Reporte Transa	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)
Common	Stock	08/28/2007				S <sup>(1)</sup>			3,750	D	D \$20.0931		) 321,644		Ι		by Moyer FamilyTrust		
Common	Stock											890,569		D					
Common	Stock											518,504				By Jointly w/Spouse			
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) 22. 3. Transaction Date Drive of Derivative Security 3. Transaction Date (Month/Day/Ye			3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Nu of Deriv Secu Acqu (A) of Dispe of (D) (Instr and §	rities ired sed . 3, 4	6. Date Ex Expiration (Month/Da				7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) Amoun or Numbe		8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securiti Benefici Owned Followin Reporte Transac (Instr. 4)	ve es ally ng d tion(s)	10. Ownersh Form: Direct (E or Indire (I) (Instr. 4)	ip of l Bei ) Ow ect (Ins	11. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code V (A) (D) Exercisable Date Title			of Shares													

Explanation of Responses:

1. In accordance with the reporting person's 10b5-1 trading plan.

2. Price is the weighted average selling price of all sales by the reporting person on the transaction date. The range of selling prices was \$19.98 to \$20.12 per share.

By: Saria Tseng For: James

Moyer

08/30/2007

\*\* Signature of Reporting Person Date

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

\* 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.