## 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 a Moyer		2. Issuer Name and Ticker or Trading Symbol <u>MONOLITHIC POWER SYSTEMS INC</u> [MPWR]							heck all ap	nship of Reporting P I applicable) Director Officer (give title		erson(s) to Issuer 10% Owner Other (specify				
(Last) 6409 GL	Middle)		3. Date of Earliest Transaction (Month/Day/Year) 08/15/2007							X belo	w) (	below) Design Engineer		Сіту		
(Street) SAN JOSE CA 9512( (City) (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned															
1. Title of	Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		tion nstr.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 and 5)					6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Benefic Owners	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
							Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3	ion(s)	(1150.4)		+)
Common	08/15	08/15/2007			<b>S</b> <sup>(1)</sup>		500	D	\$18.8(2)	325,	394	Ι	by Mo Family	oyer yTrust		
Common										890,	569	D				
Common										518,	504	Ι	By Joi w/Spo			
		Та	ble II - Der (e.g						oosed of, convertib			y Owned	l			
1. Title of Derivative Security (Instr. 3)	e Conversion Date Execution Date, T		ransaction ode (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, and 5)	Expir e (Mon s	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Numbe derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ive Ownership ies Form: cially Direct (D) or Indirect ing (I) (Instr. ed 4) ction(s)		Nature Indirect neficial mership str. 4)		

Date

Exercisable

Expiration

Date

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 \$18.61 to \$19.05 per share.

V (A) (D)

By: Saria Tseng For: James

Amount or Number

of

Shares

Title

Moyer

<u>08/17/2007</u>

\*\* 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).

Code

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.