FORM 4

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

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
haura nor raananaa	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*     Chiocchi Adriana						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC										Relationship eck all app Direct	,		rson(s) to Is		
					Ë	[ MPWR ]								_	X	Officer (give title		Other (	specify		
(Last) 6409 GU	Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) $10/05/2009$									below	) Senior V.I	P. and	below) d CLO		
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)					
, ,	SAN JOSE CA 95120															X Form filed by One Reporting Person				on	
(City)	(St	tate) (	Zip)														Form filed by More than One Reporting Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year					ı 2 Ear) i	2A. Deemed Execution Date,			nte,	3. Transa Code ( 8)	ction	4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a				5. Am	ount of ties cially	Forr (D) o	m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										Code	v	Amount	(A) or (D)	Pric	ce	Repor Trans			u. 4)	(111501.4)	
Common Stock 1				10/05/200	9					M <sup>(1)</sup>		12,000	A	\$	\$11.85	1	9,944		D		
Common Stock 10/05/20				10/05/200	9	)				S <sup>(1)</sup>		12,444	D	\$2	1.137	(2) 7	7,500		D		
	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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Exe if a	Deemed cution Date, ny onth/Day/Year)	Code		5. Numbo of Derivativ Securitie Acquired (A) or Disposed of (D) (Instr. 3, and 5)		vative urities uired or oosed O) tr. 3, 4	Expiration I e (Month/Day s		Date	Amou Securi Under Deriva Securi	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
						Code V		(A)	(D)	Date Exer	cisable	Expiration Date	Title	or Nu of	umber						
Non- Qualified Stock Option (right to buy)	\$11.85	10/05/2009			M <sup>(1</sup>	1)			12,000	) 10/2	6/2007	10/26/2013	Comm		2,000	\$0	57,500		D		

## ${\bf Explanation\ of\ Responses:}$

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. The price is the weighted average sale price for the transactions reported on this line. The prices for the transactions reported on this line range from \$20.84 to \$21.28. The reporting person undertakes to provide, upon request by the staff of the Securities and Exchange Commission, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.

Adriana Chiocchi 10/05/2009

\*\* 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.