FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	VAL
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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

					_						. ,									
Name and Address of Reporting Person* Neely Rick							2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify				
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 11/04/2009								X	Officer (give title below) Sr. VP a		below			
(Street)	Street) SAN JOSE CA 95120					4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting				son		
(City)	ty) (State) (Zip)														Pers	on				
		Tab	le I	- Non-Deri	vative	Sec	urit	ies A	cquire	d, D	isposed	of, or E	Benefic	cially C	Own	ed				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea					ear) Ex	2A. Deemed Execution Date, if any (Month/Day/Year)					4. Securiti		and 5) Secu Bene Own		rities ficially ed	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership			
					Code				v	Amount	(A) or (D)	Price		Repo Trans		(Instr. 4)	(Instr. 4)			
Common Stock 11/04/2009)			M ⁽¹⁾		2,000	A	\$8.	\$8.41		9,500	D			
Common Stock 11/04/2009)9	,			M ⁽¹⁾		2,000	A	\$8.	\$8.41		11,500	D			
Common Stock 11/04/2009)9)			S ⁽¹⁾		4,000	D	\$19.4	\$19.4893(2)		7,500	D			
		Ta	able	e II - Deriva (e.g., p					. ,		posed of converti	•		•	ned	l				
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 inth/Day/Year)	4. Transa Code (I 8)			s I		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Pri of Deriv Secur (Instr	ative rity	derivative tive Securities ty Beneficially	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A) (D)		Date Exercisa	ıble	Expiration Date	Title	Amour or Number of Shares	er						
Incentive Stock Option (right to buy)	\$8.41	11/04/2009			M ⁽¹⁾			2,000	09/06/20	006	09/22/2015	Common Stock	2,000	\$0	0	30,560	D			
Non- Qualified Stock Option (right to buy)	\$8.41	11/04/2009			M ⁽¹⁾			2,000	09/06/20	006	09/22/2015	Common Stock	2,000) \$0	0	12,940	D			

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 \$19.21 to \$19.95. 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

<u>Rick Neely</u> <u>11/04/2009</u>

** Signature of Reporting Person Date

Signature of Reporting Fersi

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.