FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 [®] Neely Rick						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]										all app Direct	onship of Reporting Pe all applicable) Director		10% C	wner
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						3. Date of Earliest Transaction (Month/Day/Year) 06/01/2009									Х		Officer (give title below) Sr. VP and		Other (specify below) CFO	
(Street) SAN JOSE CA 95120					4.	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indiv ine) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State) (Zip)						ive Securities Acquired, Disposed of, or Beneficially O										_	<u> </u>			
I able I - NOn-L 1. Title of Security (Instr. 3) 2. Transa Date (Month/D)					n ear)	2A. Deem Execution		med 3 on Date, 1		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			5. Amo		ount of ities icially	Forr (D) o Indi	rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								0	Code V		Amount	(A) or (D)	Price		Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(1150.4)	
Common Stock 06/					09					M ⁽¹⁾		15,700	Α	\$8.4	1	3	33,492		D	
Common Stock 06/01/20					9	I -				S ⁽¹⁾		15,700	D	\$21.34	49 ⁽²⁾	1	7,792		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)	Derivative Conversion Date Exe Security or Exercise (Month/Day/Year) if a			Deemed icution Date, ny inth/Day/Year)		nsaction le (Instr. Acqu (A) or Dispo of (D) (Instr and 5		Derivat Securit Acquir A) or Dispos of (D) Instr. and 5)	tive ties red sed 3, 4	6. Date Expira (Monti	ation I h/Day	/Year) Expiration	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amou or Numi of Title Share				9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

\$8.41

Non-Qualified Stock

Option

(right to buy)

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

06/01/2009

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 \$20.92 to \$21.75. 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.

09/06/2006

15,700

Rick Neely

15,700

\$<mark>0</mark>

70,240

06/02/2009

D

Common

Stock

09/22/2015

** 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).

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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.