Neely Rick Form 4 September 21, 2009

### FORM 4

#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB Number:

3235-0287

Expires:

January 31, 2005

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Estimated average

**OMB APPROVAL** 

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if no longer subject to Section 16. Form 4 or Form 5

Check this box

**SECURITIES** obligations may continue.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person ** Neely Rick			2. Issuer Name <b>and</b> Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
			MONOLITHIC POWER SYSTEMS INC [MPWR]	(Check all applicable)		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction	Director 10% Owner		
6409 GUADALUPE MINES ROAD			(Month/Day/Year) 09/17/2009	X Officer (give title Other (specify below) Sr. VP and CFO		
(Street)			4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting		
SAN JOSE, CA 95120				Person		

(City)	(State)	(Zip) Tabl	e I - Non-D	erivative	Secur	ities Acqu	uired, Disposed of	f, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	(Instr. 3,	ispose 4 and (A) or	d of (D) 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock	09/17/2009		Code V $\mathbf{M}_{\underline{(1)}}$	Amount 4,500	(D)	Price \$ 11.85	12,000	D	
Common Stock	09/17/2009		S <u>(1)</u>	4,500	D	\$ 24.5	7,500	D	
Common Stock	09/18/2009		M <u>(1)</u>	7,500	A	\$ 11.85	15,000	D	
Common Stock	09/18/2009		S(1)	7,500	D	\$ 24.5	7,500	D	

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

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SEC 1474 (9-02)

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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactio Code (Instr. 8)	5. Number form Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amour Underlying Securit (Instr. 3 and 4)	
				Code V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amo or Num of Shar
Non-Qualified Stock Option (right to buy)	\$ 11.85	09/17/2009		M <u>(1)</u>	4	,500	10/26/2008	10/26/2013	Common Stock	4,5
Non-Qualified Stock Option (right to buy)	\$ 11.85	09/18/2009		M <u>(1)</u>	7	,500	10/26/2008	10/26/2013	Common Stock	7,5

## **Reporting Owners**

Relationships Reporting Owner Name / Address

> Director 10% Owner Officer Other

Neely Rick

6409 GUADALUPE MINES ROAD Sr. VP and CFO

SAN JOSE, CA 95120

## **Signatures**

Rick Neely 09/21/2009 \*\*Signature of Date Reporting Person

# **Explanation of Responses:**

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

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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