Neely Rick Form 4 July 08, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB 3235-0287

OMB APPROVAL

Number:

Expires:

January 31,

2005

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SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

See Instruction

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Neely Rick Issuer Symbol MONOLITHIC POWER SYSTEMS (Check all applicable) INC [MPWR] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner X_ Officer (give title Other (specify (Month/Day/Year) below) 6409 GUADALUPE MINES ROAD 07/08/2010 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 (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

. •		Tabi	e i - Noii-D	errvauve	Secur	mes Acqu	ili eu, Disposeu oi	, or belieficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	on Date, if Transaction Code			` ′	5. Amount of Securities Ownership Beneficially Form: Direct Owned (D) or Following Indirect (I) Reported (Instr. 4) Transaction(s)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V	Amount	or (D)	Price	(Instr. 3 and 4)		
Common Stock	07/08/2010		M <u>(1)</u>	1,700	A	\$ 11.85	33,575	D	
Common Stock	07/08/2010		S <u>(1)</u>	300	D	\$ 18.5	33,275	D	
Common Stock	07/08/2010		S(1)	1,300	D	\$ 18.51	31,975	D	
Common Stock	07/08/2010		S(1)	100	D	\$ 18.52	31,875	D	

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

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5. Number

6. Date Exercisable and

SEC 1474 (9-02)

7. Title and Amou

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Derivative		Conversion	(Month/Day/Year)	Execution Date, if	Transaction Derivative			Expiration Dat	Underlying Securit		
	Security	or Exercise		any	Code	Securities		(Month/Day/Year)		(Instr. 3 and 4)	
(Instr. 3)	(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Acqui	red				
		Derivative				(A) or	•				
		Security				Dispo	sed of				
						(D)					
						(Instr.	3, 4,				
						and 5))				
											Amo
								Date	Expiration	Title	or Num
								Exercisable	Date	Title	of
					Code V	(A)	(D)				Shar
	Non-Qualified										
	Stock Option	\$ 11.85	07/08/2010		$M_{(1)}^{(1)}$		1,700	10/26/2008	10/26/2013	Common	1,7
•	Stock Option	φ 11.63	07/08/2010		IVI <u>(1)</u>	1,70	1,700	10/20/2008	10/20/2013	Stock	1,/

4.

Reporting Owners

2.

Reporting Owner Name / Address Relationships

3. Transaction Date 3A. Deemed

Director 10% Owner Officer Other

Neely Rick

(right to buy)

1. Title of

6409 GUADALUPE MINES ROAD Sr. VP and CFO

SAN JOSE, CA 95120

Signatures

By: Saria Tseng For: Rick 07/08/2010

Neely

**Signature of Reporting Person Date

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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