SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM S-8 REGISTRATION STATEMENT

UNDER THE SECURITIES ACT OF 1933

ResMed Inc.

(Exact Name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation or Organization) 98-0152841 (I.R.S. Employer Identification Number)

9001 Spectrum Center Blvd.
San Diego, CA 92123
United States of America
(Address of Principal Executive Offices including Zip Code)

RESMED INC. 2009 INCENTIVE AWARD PLAN, AS AMENDED AND RESTATED (Full Title of the Plan)

DAVID PENDARVIS
Chief Administrative Officer,
Global General Counsel and Secretary
ResMed Inc.
9001 Spectrum Center Blvd.
San Diego, CA 92123
United States of America
(858) 836-5000

Copy to:

ResMed Inc.

Ctrum Center Blvd.

Diego, CA 92123

States of America

States of America

States of Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent for Service)

Regina M. Schlatter, Esq.

Latham & Watkins LLP

650 Town Center Drive, Twentieth Floor

Costa Mesa, California 92626

(714) 755-8261

(Name and Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent for Service)

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, anon-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," and "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange

Act. (Check one):

Large accelerated filer
Non-accelerated filer
One (Do not check if a smaller reporting company)

Emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act. \Box

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Offering Price Per Share (2)	Proposed Maximum Aggregate Offering Price (2)	Amount of Registration Fee
Common Stock, par value 0.004 per share	7,392,471	\$95.61	706,794,152.31	\$87,995.87

- (1) The ResMed Inc. 2009 Incentive Award Plan, as Amended and Restated (formerly known as the ResMed Inc. 2006 Incentive Award Plan, as amended and restated) (the "Plan"), currently authorizes the issuance of 19,000,000 shares for grants of equity awards after November 16, 2017 (less shares subject to awards granted after June 30, 2017 and prior to November 16, 2017) of our common stock, par value \$0.004 (the "Common Stock"). We have previously registered 43,733,937 shares of Common Stock for issuance under the Plan (after giving effect to stock splits). This registration statement is registering the additional 7,392,471 shares of Common Stock approved by our stockholders for issuance under the Plan at our stockholders meeting on November 16, 2017. In accordance with Rule 416(a) of the Securities Act of 1933, as amended (the "Securities Act"), this registration statement will also cover any additional shares of common stock which become issuable under the Plan by reason of any stock dividend, stock split, recapitalization or similar transaction.
- (2) Estimated solely for the purposes of calculating the registration fee under Rule 457(h) and (c) under the Securities Act, and is based on the average of the high and low sales price (\$95.61) of the Common Stock, as reported on the New York Stock Exchange on April 27, 2018, for the 7,392,471 additional shares of Common Stock issuable under the Plan.

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

We are not filing with or including in this formS-8 the information called for in part I of formS-8 (by incorporation by reference or otherwise) in accordance with the rules and regulations of the Securities and Exchange Commission (the "Commission").

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Registration of Additional Securities

The ResMed Inc. 2009 Incentive Award Plan, as Amended and Restated (the "Plan") currently authorizes the issuance of 19,000,000 shares for grants of equity awards after November 16, 2017 (less shares subject to awards granted after June 30, 2017 and prior to November 16, 2017) of our common stock, par value \$0.004 (the "Common Stock"), representing an increase in authorized shares under the Plan of 7,392,471 shares. We have previously registered 43,733,937 shares of Common Stock for issuance under the Plan by (i) a registration statement on form S-8 filed with the Commission on January 31, 2007, registration no.333-140351, covering 15,600,000 shares of Common Stock, (ii) a registration statement on form S-8 filed with the Commission on December 11, 2008, registration no.333-156065, covering 4,200,000 shares of Common Stock, (iii) a registration statement on form S-8 filed with the Commission on January 26, 2010, registration no.333-16527, covering 3,121,650 shares of Common Stock, (iv) a registration statement on form S-8 filed with the Commission on May 12, 2012, registration no.333-181317, covering 12,553,350 shares of Common Stock, and (v) a registration Statement on form S-8 filed with the Commission on February 27, 2014, registration no.333-194225, covering 8,258,937 shares of Common Stock (collectively, the "Prior Registration Statements"). The contents of the Prior Registration Statements are incorporated here by reference to the extent not modified or superseded by the Prior Registration Statements or by any subsequently filed document that is incorporated by reference in this registration statement or in the Prior Registration Statements. The amount of Common Stock registered under the Prior Registration Statements referenced in (i), (ii) and (iii) has been doubled to reflect a two-for-one stock split on August 17, 2010. This registration statement is registering the additional 7,392,471 shares recently approved by our stockholders for issuance under the Plan.

Item 5. Interests of Named Experts and Counsel

Not applicable.

Item 8. Exhibits

See Index to Exhibits included herein.

INDEX TO EXHIBITS

EXHIBIT	
4.1	Form of Certificate Evidencing Shares of Common Stock (incorporated by reference to the Registrant's registration statement on formS-1 (No. 33-91094) declared effective on June 1, 1995)(P)
5.1*	Opinion of David Pendarvis
23.1*	Consent of David Pendarvis (included in Exhibit 5.1)
23.2*	Consent of KPMG LLP, Independent Registered Public Accounting Firm
24*	Power of Attorney (included in the signature page to this registration statement)
99.1	ResMed Inc. 2009 Incentive Award Plan, as Amended and Restated (incorporated by reference to Appendix B to the Registrant's Definitive Proxy Statement filed on September 25, 2017)

- * Filed herewith.
- (P) Paper exhibit

SIGNATURES

In accordance with the requirements of the Securities Act of 1933, ResMed Inc. certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on form S-8 and has duly caused and authorized the officers whose signatures appear below to sign this registration statement on its behalf, in the City of San Diego, State of California, USA, and in the City of Sydney, State of New South Wales, Australia on April 30, 2018.

RESMED INC.

By: /s/ Michael J. Farrell

Michael J. Farrell, Chief Executive Officer

By: /s/ Brett A. Sandercock

Brett A. Sandercock, Chief Financial Officer

POWER OF ATTORNEY

Each person whose signature appears below hereby authorizes and appoints Michael J. Farrell and Brett A. Sandercock as attorneys-in-fact and agents, each acting alone, with full powers of substitution to sign on his behalf, individually and in the capacities stated below, and to file any and all amendments, including post-effective amendments, to this registration statement and other documents in connection with the registration statement, with the Securities and Exchange Commission, granting to those attorneys-in-fact and agents full power and authority to perform any other act on behalf of the undersigned required to be done.

In accordance with the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities indicated as of April 30, 2018.

/s/ Michael J. Farrell	Director and Chief Executive Officer (Principal Executive Officer)
Michael J. Farrell	
/s/ Brett A. Sandercock Brett A. Sandercock	Chief Financial Officer (Principal Financial and Accounting Officer)
/s/ Peter C. Farrell Peter C. Farrell	Chairman of the Board
/s/ Carol J. Burt Carol J. Burt	Director
/s/ Gary W. Pace Gary W. Pace	Director
/s/ Karen Drexler	Director
Karen Drexler /s/ Richard Sulpizio	Director
Richard Sulpizio /s/ Ronald Taylor	Director
Ronald Taylor	
/s/ John Wareham John Wareham	Director



ResMed Inc. 9001 Spectrum Center Blvd. San Diego, CA 92123 Attn: Board of Directors

Re: Registration Statement on Form S-8

Ladies and Gentlemen:

As the global general counsel for ResMed Inc., a Delaware corporation ("ResMed"), I render the following opinion in connection with ResMed's proposed issuance of up to 7,392,471 shares of its common stock, \$.004 par value per share (the "Shares"), under the ResMed Inc. 2009 Incentive Award Plan, as Amended and Restated (the "Plan"), and the registration of the Shares by a registration statement on Form S-8 under the Securities Act of 1933, as amended (the "Act"), to be filed with the Securities and Exchange Commission (the "Commission") on the date hereof (the "Registration Statement"). I am furnishing this opinion in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Act. I am not expressing any opinion in this letter as to any matter pertaining to the contents of the Registration Statement, other than as to the validity of the Shares.

For purposes of this opinion, I, or other employees under my supervision, have made legal and factual examinations and inquiries of the documents, corporate records and other instruments that I have deemed necessary or appropriate for purposes of this opinion. In examining these documents, I have assumed the genuineness of all signatures, the legal capacity of all natural persons, the accuracy and completeness of the documents submitted to me, the authenticity of all original documents, and the conformity to authentic original documents of all documents submitted to me as copies (including PDF files). As to all matters of fact, I have relied on the representations and statements of fact made in the documents so reviewed, and I have relied, without independent verification, on certificates and other inquiries of officers of ResMed. I have obtained and relied on certificates and assurances from public officials to the extent I have deemed appropriate.

I am opining in this letter as to the effect on the subject transaction only of the General Corporation Law of the State of Delaware ("DGCL"), and I express no opinion with respect to the applicability or the effect of any other laws or as to any matters of municipal law or any other local agencies within any state.

Subject to the foregoing and the other matters set forth herein, it is my our opinion that, as of the date hereof, when the Shares shall have been duly registered on the books of the transfer agent and registrar therefor in the name or on behalf of the holders and have been issued by ResMed for legal consideration in excess of par value in the circumstances contemplated by the Plan, assuming in each case that the individual grants or awards under the Plan are exercised in accordance with the requirements of law and the Plan (and the agreements and awards duly adopted thereunder and in accordance therewith), the issuance and sale of the Shares will have been duly authorized by all necessary corporate action of ResMed and the Shares will be validly issued, fully paid and

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nonassessable. In rendering the foregoing opinion, I have assumed that ResMed will comply with all applicable notice requirements regarding uncertificated shares provided in the DGCL. I consent to your filing this opinion as an exhibit to the Registration Statement.

Sincerely,

/s/ David Pendarvis

David Pendarvis Global General Counsel

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KPMG LLP Suite 1100 4655 Executive Drive San Diego, CA 92121-3132

Consent of Independent Registered Public Accounting Firm

The Board of Directors ResMed Inc.:

We consent to the use of our reports with respect to the consolidated financial statements and the effectiveness of internal control over financial reporting incorporated by reference herein.

KPMG LLP

San Diego, California April 30, 2018