AMYRIS BIOTECHNOLOGIES INC Form S-1 April 16, 2010 Table of Contents

As filed with the Securities and Exchange Commission on April 16, 2010

Registration No. 333-

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-1 REGISTRATION STATEMENT

UNDER

THE SECURITIES ACT OF 1933

Amyris Biotechnologies, Inc.

 $(Exact\ name\ of\ registrant\ as\ specified\ in\ its\ charter)$

Delaware 55-0856151 (State or other jurisdiction of (Primary Standard Industrial (I.R.S. Employer **Classification Code Number) Identification Number)** incorporation or organization) 5885 Hollis Street, Suite 100 Emeryville, CA 94608 (510) 450-0761 (Address, including zip code, and telephone number, including area code, of registrant s principal executive offices) John G. Melo **President and Chief Executive Officer** Amyris Biotechnologies, Inc. 5885 Hollis Street, Suite 100 Emeryville, CA 94608 (510) 450-0761 (Name, address, including zip code, and telephone number, including area code, of agent for service) Copies to: Gordon K. Davidson, Esq. Jeffrey D. Saper, Esq. Daniel J. Winnike, Esq. Allison B. Spinner, Esq. Sayre E. Stevick, Esq. Wilson Sonsini Goodrich & Rosati, P.C. Fenwick & West LLP 650 Page Mill Road 801 California Street Palo Alto, California 84304

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(650) 493-9300

Mountain View, California 94041

(650) 988-8500

Approximate date of commencement of proposed sale to the public: as soon as practicable af	fter this registration statement is declared effective.
If any of the securities being registered on this Form are to be offered on a delayed or continuous check the following box. "	s basis pursuant to Rule 415 under the Securities Act of 1933,
If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under Act registration statement number of the earlier effective registration statement for the same offer.	· ·
If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act statement number of the earlier effective registration statement for the same offering.	t, check the following box and list the Securities Act registration
If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act statement number of the earlier effective registration statement for the same offering.	t, check the following box and list the Securities Act registration
Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a ned definitions of large accelerated filer, accelerated filer, and smaller reporting company in	
Large accelerated filer " Non-accelerated filer x (Do not check if a smaller reporting company)	Accelerated filer " Smaller reporting company "
CALCULATION OF REGISTRATION	ON FEE
Title of Each Class of	Proposed Maximum

(1) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457(o) under the Securities Act of 1933, as amended.

Price⁽¹⁾⁽²⁾

\$100,000,000

Registration Fee

\$7,130

(2) Includes shares which may be purchased by the underwriters pursuant to their option to purchase additional shares.

Securities To Be Registered

Common Stock, \$0.001 par value per share

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to Section 8(a), may determine.

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The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and we are not soliciting offers to buy these securities in any state where the offer or sale is not permitted.
PROSPECTUS (Subject to Completion)
Issued April 16, 2010
Shares
COMMON STOCK
Amyris Biotechnologies, Inc. is offering shares of its common stock. This is our initial public offering and no public market currently exists for our shares. We anticipate that the initial public offering price of our common stock will be between \$ and \$ per share.
We have applied to list our common stock on under the symbol AMRS.
Investing in our common stock involves substantial risks. See <u>Risk Factor</u> s beginning on page 10.

PRICE \$ A SHARE

Per Share Total		Price to Public \$	Underwriting Discounts and Commissions \$	Proceeds to Amyris \$
We have granted the underwriters the right to purchase up to an	ı additional sha	res of common stoc	·k.	
The Securities and Exchange Commission and state securities rethis prospectus is truthful or complete. Any representation to the			d of these securities or	determined if
The underwriters expect to deliver the shares of common stock t	to purchasers on	, 2010.		
MORGAN STANLEY J.P. 1	MORGAN	GO	OLDMAN, SAC	HS & CO.
BANCO ITAÚ , 2010		THO	MAS WEISEL PAR	TNERS LLC

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You should rely only on the information contained in this prospectus or in any free-writing prospectus we may specifically authorize to be delivered or made available to you. We have not and the underwriters have not authorized anyone to provide you with additional or different information. We are offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted. The information in this prospectus or a free-writing prospectus is accurate only as of its date, regardless of its time of delivery or any sale of shares of our common stock. Our business, financial condition, results of operations and prospects may have changed since that date.

Until , 2010 (25 days after the commencement of this offering), all dealers that buy, sell or trade shares of our common stock, whether or not participating in this offering, may be required to deliver a prospectus. This delivery requirement is in addition to the obligation of dealers to deliver a prospectus when acting as underwriters and with respect to their unsold allotments or subscriptions.

For investors outside the U.S.: We have not and the underwriters have not done anything that would permit this offering or possession or distribution of this prospectus in any jurisdiction where action for that purpose is required, other than in the U.S. Persons outside the U.S. who come into possession of this prospectus must inform themselves about, and observe any restrictions relating to, the offering of the shares of common stock and the distribution of this prospectus outside of the U.S.

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PROSPECTUS SUMMARY

This summary highlights information appearing elsewhere in this prospectus and does not contain all of the information you should consider in making your investment decision. You should read this entire prospectus carefully, especially the Risk Factors section beginning on page 10 and our consolidated financial statements and the related notes appearing elsewhere in this prospectus, before making an investment decision.

AMYRIS BIOTECHNOLOGIES, INC.

Business Overview

Our Company

We are building an integrated renewable products company by applying our industrial synthetic biology platform to provide alternatives to select petroleum-sourced products used in specialty chemical and transportation fuel markets worldwide. We genetically modify microorganisms, primarily yeast, and use them as living factories in established fermentation processes to convert plant-sourced sugars into potentially thousands of target molecules. Our first commercialization efforts have been focused on a molecule called farnesene, which forms the basis for a wide range of products varying from specialty chemical applications such as detergents, cosmetics, perfumes and industrial lubricants, to transportation fuels such as diesel. We call these No Compromise® products because we design them to perform comparably to or better than currently available products. While our platform is able to utilize a wide variety of feedstocks, we have focused our initial research and development, business development and production operations on the use of Brazilian sugarcane as our primary feedstock because of its abundance, low cost and relative price stability. We intend to secure access to this feedstock and expand our production capacity in a capital light manner. Under this approach, we expect to work with Brazilian sugar and ethanol producers to build new, bolt-on facilities adjacent to their existing mills instead of building entirely new greenfield facilities, thereby reducing the capital required to establish and scale our production. Our first such arrangement is our joint venture with Usina São Martinho, a subsidiary of São Martinho S.A., one of the largest sugar and ethanol producers in Brazil.

Technology

We have developed genetic engineering and screening technologies that enable us to modify the way microorganisms, or microbes, process sugar. By controlling these metabolic pathways, we design microbes to serve as living factories, or biorefineries, to produce target molecules that we seek to commercialize. Our platform utilizes proprietary high-throughput processes to create and test as many as 1,000 yeast strains a day in order to select those yeast strains which are most efficient. We first developed and applied our technology to create microbial strains to produce artemisinic acid, a precursor of artemisinin, an anti-malarial therapeutic. This work was funded by a five year grant awarded by the Bill & Melinda Gates Foundation to the Institute for OneWorld Health. We have granted a royalty-free license to this technology to sanofi-aventis for the commercialization of artemisinin-based drugs.

Feedstock

We are focusing on Brazilian sugarcane as our primary feedstock. Brazil is the world s largest producer of sugarcane, crushing over 600 million tons of sugarcane annually to provide feedstock to approximately 400 sugar and ethanol mills. According to UNICA, the Brazilian Sugarcane Industry Association, sugarcane is the lowest cost feedstock to produce renewable products at scale and using it enables us to leverage the established Brazilian infrastructure. Common to both our process and the sugarcane-to-ethanol process is the use of fermentation, a well-established process that combines a sugar source and yeast to produce beer, wine and, more recently, ethanol fuels. We plan to establish production capacity taking as input the same sugar source that is routinely processed by existing sugar and ethanol mills and directing it to customized fermentors, where it will be combined with our genetically engineered yeast.

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Scale-Up

We operate research and development laboratories in Emeryville, California, and have built an adjacent pilot facility that tests our yeast strains in 300 liter scale fermentors. We have an identical pilot plant in Campinas, Brazil, to facilitate the adaptation of our technology to the Brazilian production environment. We established a 5,000 liter demonstration facility in Brazil in September 2009 to further validate our processes and equipment as we move toward commercialization of our products. We have also completed production runs using our strains to produce farnesene in a 60,000 liter fermentor at a contract manufacturing facility in the U.S.

Commercial Production

We expect to access feedstock and expand our production through our capital light strategy. Our first such arrangement is our joint venture with Usina São Martinho, SMA Indústria Quimica S.A. This facility is located at Usina São Martinho, the world s largest sugarcane processing facility, which crushed 8.1 million tons of sugarcane during the 2009-2010 harvest. We have also provided Usina São Martinho with an option to produce our products at a second production facility. We have non-binding letters of intent in place with three leading Brazilian sugar and ethanol producers, Bunge Limited, Cosan and Açúcar Guarani, a subsidiary of Tereos, to build new, bolt-on facilities adjacent to specified existing mills to produce our products. We expect that these mill owners will make a substantial capital or operating contribution to fund these facilities in return for a share of the higher gross margin we believe we will realize from the sale of our renewable products. In addition, we expect these arrangements to provide us with access to over ten million tons of sugarcane crush capacity annually, which we intend to expand over time with these and other mills. This capacity represents approximately 9.8% of the total crush capacity of these sugar and ethanol producers.

Commercialization

We plan to commence commercialization of our products starting in 2011 using contract manufacturers, and to have our first capital light production facility, our joint venture with Usina São Martinho, operational in the second quarter of 2012. As we commence commercial production of our initial molecule, farnesene, we expect to target specialty chemical markets. Further, we are seeking to improve our strain performance to expand our addressable markets, including additional specialty chemical applications and renewable diesel. For most specialty chemical applications, we intend to sell directly to industrial customers. For distribution of our diesel in the U.S., we expect to sell directly, primarily to corporations with large trucking fleets. For distribution of our diesel in other geographies, we expect to sell indirectly through third parties. To build the capabilities we will need to import and distribute our renewable fuels products in the U.S., we have established our subsidiary Amyris Fuels, LLC. Amyris Fuels currently generates revenues through the sale of third party ethanol to wholesale customers through a network of terminals in the southeastern U.S.

Our Industry

Petroleum is a fundamental building block for products, such as consumer products, chemicals, plastics and transportation fuels, that are essential to modern economies. According to the U.S. Energy Information Administration (EIA), in 2008 the total worldwide demand for petroleum was over \$3 trillion, or 5% of worldwide gross domestic product. Recently, however, the increased demand for petroleum in the face of limited supply, supply chain uncertainty and negative environmental impacts has created challenges to the current petroleum infrastructure. As a result, there have been many attempts to create products comparable to petroleum derivatives without these drawbacks. However, initial approaches have faced a number of challenges that have limited their success, including:

Exposure to volatile feedstock pricing. Many U.S. renewable fuels companies have focused on the conversion of commodity feedstocks, such as corn or vegetable oil, into ethanol or biodiesel. These companies were exposed to swings in the market prices for their feedstocks, which at times made production unprofitable for a number of producers in these industries.

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Limited product portfolio. Companies engaging in early attempts to create renewable fuels typically focused on one end product, such as ethanol or biodiesel. These companies generally lacked product diversity and, therefore, were vulnerable to variability of market prices and the degree of government support for their primary product. Further, the products these companies made were imperfect substitutes for the products they were intended to replace, as neither ethanol nor biodiesel can be stored or transported conventionally and both are subject to blend limits.

Capital intensity. Many initial U.S. ethanol companies utilized a vertically integrated business model that required hundreds of millions of dollars to construct and own mills. This left them with limited ability to enter new geographies and to access new feedstock, as they were tied to their existing facilities.

Dependence on policy. The economic viability of many alternative fuels is based on government regulations and support, making it difficult to build a business with long term sustainability.

Other efforts to develop alternatives to petroleum-sourced products include the use of non-food-based feedstocks, such as cellulosic sugars sourced from wood chips, corn stalks and sugarcane bagasse. Some of these approaches have shown promise and may not be influenced by commodity markets and food versus fuel concerns. However, they are not complete solutions to the challenges above, and to date, these approaches have been limited by cost and technical considerations, among others.

Our Solution

Our proprietary technology enables us to engineer microbes, such as yeast, to produce target molecules, and our business model is designed to produce these products and bring them to market in a capital light manner. Our industrial synthetic biology platform is designed to produce competitive products from widely available plant-derived feedstocks using genetically modified yeast strains in a well-established fermentation process. We are focusing our initial production efforts in Brazil, positioning us to access sugarcane feedstock and to leverage the substantial infrastructure of existing sugar and ethanol mills.

Competitive Strengths

Our key competitive strengths are:

Abundant, low-cost and relatively price stable feedstock. Brazilian sugar and ethanol mills typically grow much of their own sugarcane, and sugarcane in Brazil does not compete as a food source. As a result, this industry enjoys a low production cost structure and is insulated from feedstock price volatility.

Broad range of potential products. Our initial molecule, farnesene, can serve as the basis for a wide range of products, enabling us to optimize our product mix and reduce our exposure to any one end market. Our technology platform gives us the ability to produce potentially thousands of additional target molecules.

Scalable, capital light approach. Our technology platform enables us to leverage the large existing sugar and ethanol industry infrastructure in Brazil.

Not policy dependent. While we benefit from regulations, such as the Renewable Fuels Standard provided for by the U.S. Energy Policy Act of 2005, that encourage the use of renewable products, we expect our products to be offered on a cost-competitive basis with existing products without reliance on subsidies.

Our Solution for our Customers

The key benefits we intend to provide to our customers include:

No Compromise product offerings. We refer to our products as No Compromise because we design them to perform comparably to or better than currently available products. For example, we expect that our diesel will not require engine or distribution infrastructure modifications, will have better performance at low temperatures and will generally have a higher cetane number than biodiesel.

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Greater pricing stability. We believe that our use of Brazilian sugarcane, and our ability over time to utilize a wide variety of other plant-based feedstocks, will enable us to offer our specialty chemical customers greater pricing protection from the level of price volatility generally associated with exposure to petroleum-sourced products.

Green alternative. Our products are derived from renewable sources, enabling our customers to reduce the environmental impact of their products and, in some cases, increase the loyalty consumers have for these products.

Our Value Proposition to Sugar and Ethanol Producers

The key benefits we intend to provide to sugar and ethanol producers that will work with us to produce our products include:

Product diversification. By producing our products, sugar and ethanol mills would be able to diversify their business beyond their current sugar or ethanol production and potentially mitigate volatility in their financial performance caused by changes in the market prices for sugar or ethanol.

Opportunity for growth. By diversifying their product base to address additional market opportunities, producers may be able to expand the amount of sugarcane grown and processed at their mills.

Potential for improved margins. We intend to offer these producers a share of the higher gross margin we believe we will realize from the sale of our renewable products relative to their existing products, potentially improving their gross margins and the return they realize on their feedstock.

Our Strategy

Our objective is to become the leading provider of renewable specialty chemicals and transportation fuels worldwide. Key elements of our strategy include:

Pursuing market opportunities that maximize our returns. We intend to commercialize initially in select specialty chemical markets and then as we lower our production costs, to expand into broader specialty chemical markets and transportation fuels. We also intend to enter into collaborative research, development and commercialization agreements to accelerate our entry into select new product opportunities.

Leveraging our technology platform to improve efficiency. We intend to continually apply our technology platform to lower the cost of production of our products through yield improvements and other efficiencies.

Focusing on Brazilian sugarcane. We are focusing on Brazilian sugarcane as our primary feedstock because of its abundance, low cost and relative price stability.

Advancing capital light production. We expect to partner with existing sugar and ethanol mills to establish and scale production at a lower cost than the cost of greenfield mill construction.

Continuing to develop our fuels distribution network. We will continue to expand the size and geographic scope of our Amyris Fuels distribution network in the U.S. and establish arrangements with third parties for distribution in other countries.

OUR RISKS

Our business is subject to numerous risks and uncertainties that you should understand before making an investment decision. These risks are discussed more fully in the section entitled Risk Factors beginning on page 10 of this prospectus. These include:

we have a limited operating history and have not generated revenues from the sale of any of our renewable products, and our business may fail if we are not able to successfully commercialize these products;

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we have incurred losses to date, anticipate continuing to incur losses in the future and may never achieve or sustain profitability;

if we are unable to decrease our production costs, we may not be able produce our products at competitive prices and our business will not succeed;

we have no experience producing our products at the commercial scale needed for the development of our business, and we will not succeed if we cannot effectively scale our technology and processes;

our ability to commence commercial sales of our products in 2011 is subject to a number of risks, any of which could delay our sales and adversely impact our customer relationships, business and results of operations;

if our joint venture production facility with Usina São Martinho in Brazil does not successfully commence operations in the second quarter of 2012, our customer relationships, business and results of operations may be adversely affected;

our joint venture with Usina São Martinho contemplates that we will make significant capital expenditures and subjects us to certain legal and financial terms that could adversely affect us;

we plan to enter into arrangements with Brazilian sugar and ethanol producers to produce our products, and if we are not able to complete these arrangements in a timely manner and on terms favorable to us, our business will be adversely affected;

building new bolt-on facilities adjacent to existing sugar and ethanol mills for production of our products requires significant capital, and if mill owners are unwilling to contribute, or do not have or have access to this capital, production of our products would be more limited or expensive than expected and our business would be harmed;

our strategy of relying on existing Brazilian sugar and ethanol producers to produce our products will make us substantially dependent on these owners, and they may not perform their obligations under agreements with us or otherwise perform to our standards;

our reliance on contract manufacturers to produce our products during construction of our Usina São Martinho joint venture production facility and periodically for additional short-term production capacity exposes us to risks relating to the price and availability of that contract manufacturing and could adversely affect our growth;

the production of our products will require sugar feedstock, and the inability to obtain such feedstock in sufficient quantities or in a timely manner may limit our ability to produce our products;

an increase in the price and profitability of ethanol and sugar relative to our products could adversely affect our arrangements with sugar and ethanol producers;

the price of sugarcane feedstock can be volatile as a result of changes in industry policy and may increase the cost of production of our products;

most of our planned initial production capacity will be in Brazil, and our business will be adversely affected if we do not operate effectively in that country;

we may face risks relating to the use of our genetically modified yeast strains and if we are not able to secure regulatory approval for the use of our yeast strains or if we face public objection to our use of them, our business could be adversely affected;

we may not be able to obtain regulatory approval for the sale of our renewable products; and

we cannot assure you that our products will be approved or accepted by customers in specialty chemical markets.

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Company Information

We were originally incorporated in the State of California in July 2003, and we plan to reincorporate in the State of Delaware prior to the completion of this offering. Our corporate headquarters are located at 5885 Hollis Street, Suite 100, Emeryville, CA 94608, and our telephone number is (510) 450-0761. Our website address is www.amyris.com. The information contained on our website or that can be accessed through our website is not part of this prospectus, and investors should not rely on any such information in deciding whether to purchase our common stock.

Except where the context requires otherwise, in this prospectus, Amyris, our company, the Company, we, us and our refer to Amyris Biotechnologies, Inc. and its subsidiaries. These subsidiaries include Amyris Brasil S.A., a majority-owned Brazilian company through which we conduct our Brazilian operations, and Amyris Fuels, LLC, a wholly-owned subsidiary through which we are building our U.S. fuels distribution capabilities. In connection with the completion of this offering, Amyris Brasil S.A. will become a wholly-owned subsidiary through the conversion of third-party held stock in that subsidiary into our common stock. Amyris Brasil holds our equity interest in our joint venture with Usina São Martinho, SMA Indústria Química S.A.

Amyris®, No Compromise® and our logo are our trademarks. This prospectus also contains trademarks and trade names of other businesses that are the property of their respective holders.

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THE OFFERING

Common stock offered by us shares
Common stock to be outstanding after this offering shares

Use of proceeds We intend to use the net proceeds from this offering for capital

expenditures, working capital and other general corporate purposes, including for building engineering services capabilities and growing our chemistry capabilities. We may also use a portion of our proceeds to expand our current business through acquisitions of other companies, assets or technologies. See Use of Proceeds.

Risk factors

You should read the Risk Factors section of this prospectus beginning on page 10 for a discussion of factors to consider carefully before deciding to invest in shares of our common stock.

Proposed stock exchange trading symbol AMRS

The number of shares of our common stock to be outstanding after this offering is based on 24,215,560 shares of our common stock outstanding as of December 31, 2009, after giving effect to the conversion of our outstanding convertible preferred stock into 18,790,244 shares of common stock and the conversion of shares of Amyris Brasil held by third party investors in this subsidiary into 311,111 shares of our common stock and excludes:

4,446,894 shares of common stock issuable upon the exercise of stock options outstanding as of December 31, 2009, at a weighted average exercise price of \$2.87 per share;

144,158 shares of common stock issuable upon the exercise of outstanding warrants as of December 31, 2009, that will remain outstanding after the completion of this offering through various dates from one year from the effective date of this offering to March 2016, with a weighted average price of \$21.20 per share;

50,000 shares of common stock subject to restricted stock units outstanding as of December 31, 2009;

shares of common stock reserved for future issuance under our 2010 Equity Incentive Plan, which will become effective upon the completion of this offering and will contain provisions that will automatically increase its share reserve each year, as more fully described in Management Employee Benefit Plans; and

shares of common stock reserved for future issuance under our 2010 Employee Stock Purchase Plan, which will become effective upon the completion of this offering and will contain provisions that will automatically increase its share reserve each year, as more fully described in Management Employee Benefit Plans.

Unless otherwise indicated, the information in this prospectus assumes:

our reincorporation into Delaware and the filing of our amended and restated certificate of incorporation and the adoption of our amended and restated bylaws immediately prior to the completion of this offering; and

no exercise by the underwriters of their option to purchase additional shares.

All references in this prospectus to U.S. dollars, dollars, US\$ or \$ are to U.S. dollars. All references to the real, reais or BRL\$ are to the Brazilian real, the official currency of Brazil. All conversions of Brazilian reais into U.S. dollars in this document are based on the BRL\$/US\$ exchange rate as of April 2, 2010, reported by *The Wall Street Journal* of BRL\$1.7649: US\$1.0000.

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SUMMARY CONSOLIDATED FINANCIAL DATA

The following table summarizes our consolidated financial data. We have derived the following consolidated statement of operations data for the fiscal years ended December 31, 2007, 2008 and 2009 and the consolidated balance sheet data as of December 31, 2009 from our audited consolidated financial statements appearing elsewhere in this prospectus. You should read the summary of our consolidated financial data set forth below together with the more detailed information contained in Management's Discussion and Analysis of Financial Condition and Results of Operations and our consolidated financial statements and the related notes appearing elsewhere in this prospectus. Our historical results presented below are not necessarily indicative of financial results to be achieved in the future.

		Years Ended December 31, 2007 2008		31,	2009		
		(in thousands, except share and per share				e amounts)	
Consolidated Statement of Operations Data:		`	•	•		ĺ	
Total revenues	\$	6,184	\$	13,892	\$	64,608	
Cost and operating expenses							
Cost of product sales				10,364		60,428	
Research and development ⁽¹⁾		8,662		30,306		38,263	
Sales, general and administrative ⁽¹⁾		10,522		16,622		23,558	
Restructuring and asset impairment charges						5,768	
Total cost and operating expenses		19,184		57,292		128,017	
Loss from operations		(13,000)		(43,400)		(63,409)	
Total other income (expense)		1,226		857		(1,391)	
Loss before income taxes		(11,774)		(42,543)		(64,800)	
Benefit from income taxes		, ,		(207)		, , ,	
Net loss		(11,774)		(42,336)		(64,800)	
Loss attributable to noncontrolling interest				(472)		(341)	
Net loss attributable to Amyris Biotechnologies, Inc. stockholders	\$	(11,774)	\$	(41,864)	\$	(64,459)	
Net loss per share of common stock attributable to Amyris Biotechnologies, Inc. stockholders, basic and diluted ⁽²⁾	\$	(3.28)	\$	(9.91)	\$	(13.56)	
Weighted-average shares of common stock outstanding used in computing net loss per share of common stock, basic and diluted ⁽²⁾	3	,592,932		4,223,533		4,753,085	
Pro forma net loss per share of common stock attributable to Amyris Biotechnologies, Inc. stockholders, basic and diluted (unaudited) ⁽²⁾					\$	(3.16)	
Weighted-average shares of common stock outstanding used in computing pro forma net loss per share of common stock, basic and diluted (unaudited) ⁽²⁾					2	20,279,433	

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	As of December 31, 2009			
	Actual	Pro Forma (3) (in thousands) (Unaudited)		Pro Forma as Adjusted (4) (Unaudited)
Consolidated Balance Sheet Data:				
Cash, cash equivalents, short term investments and restricted				
cash	\$ 71,716	\$	71,716	\$
Working capital	51,062		51,062	
Total assets	122,159		122,159	
Total indebtedness (5)	20,608		20,608	
Convertible preferred stock warrant liability	2,740			
Convertible preferred stock	179,651			
Redeemable noncontrolling interest	5,506			
Total equity (deficit)	\$ (113,745)	\$	74,152	\$

(1) Includes stock-based compensation expense as follows:

	Year	Years Ended December 31,			
	2007	2008	2009		
		(in thousands)			
Research and development	\$ 117	\$ 632	\$ 773		
Sales, general and administrative	429	1,395	2,526		
Total stock-based compensation expense	\$ 546	\$ 2,027	\$ 3,299		

- (2) See Note 2 to our Consolidated Financial Statements appearing elsewhere in this prospectus for an explanation of the method used to calculate basic and diluted net loss per share of common stock, the pro forma basic and diluted net loss per share of common stock and the weighted-average number of shares used in computation of the per share amounts.
- (3) On a pro forma basis to reflect the conversion of all outstanding shares of our convertible preferred stock into common stock, the conversion of shares of Amyris Brasil held by investors in that subsidiary into shares of our common stock and the reclassification of the convertible preferred stock warrant liability to common stock immediately prior to the completion of this offering.
- (4) On a pro forma as adjusted basis to reflect the sale of shares of our common stock by us in this offering at an assumed initial public offering price of \$ per share (which is the midpoint of the price range set forth on the cover page of this prospectus), after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us in connection with the offering. A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share of common stock would increase (decrease) cash, cash equivalents and short-term investments by \$ million, working capital by \$ million, total assets by \$ million and total stockholders equity (deficit) by \$ million, assuming the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us in connection with the offering. The pro forma as adjusted information discussed above is illustrative only and will adjust based on the actual public offering price and other terms of this offering determined at pricing.
- (5) Total indebtedness includes an \$8.3 million credit facility associated with our student loan auction rate securities holdings, \$7.2 million in capital lease obligations, a \$4.0 million note payable and a \$1.0 million loan payable (See Note 5 and Note 6 to our Consolidated Financial Statements).

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RISK FACTORS

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information in this prospectus, including the consolidated financial statements and the related notes appearing elsewhere in this prospectus, before making an investment decision. If any of the following risks actually occurs, our business, financial condition, results of operations and future prospects could be materially and adversely harmed. The trading price of our common stock could decline due to any of these risks, and, as a result, you may lose all or part of your investment.

Risks Related to Our Business

We have a limited operating history and have not generated revenues from the sale of any of our renewable products, and our business may fail if we are not able to successfully commercialize these products.

We are an early stage company with a limited operating history, and we have not yet commercialized any of our renewable products. To date, our revenues have consisted of sales of ethanol produced by third parties, funding from third party collaborative research services and government grants. We are subject to the substantial risk of failure facing businesses seeking to develop products based on a new technology. Certain factors that could, alone or in combination, prevent us from successfully commercializing our renewable products include:

technical challenges with our production processes that we are not able to overcome;

our ability to achieve commercial scale production of our specialty chemical and fuel products on a cost effective basis;

our ability to secure access to low-cost feedstock;

our ability to establish and maintain successful relationships for the production of our products with the owners of sugar and ethanol mills;

our ability to secure and maintain all necessary regulatory approvals for the production, distribution and sale of our products and to comply with applicable laws and regulations;

our ability to develop customer relationships and build a cost-effective distribution network for our products;

actions of direct and indirect competitors that may seek to enter the renewable products markets in competition with us or that may seek to impose barriers to one or more aspects of the renewable products businesses that we intend to pursue; and

public concerns about the ethical, legal, environmental and social ramifications of genetically engineered products and processes, use of land and renewable carbon sources for the production of renewable products and diversion of resources from food production.

We have incurred losses to date, anticipate continuing to incur losses in the future and may never achieve or sustain profitability.

We have incurred substantial net losses since our inception, including a net loss of \$64.8 million in 2009, a net loss of \$42.3 million in 2008 and a net loss of \$11.8 million in 2007. We expect these losses to continue. As of December 31, 2009, we had an accumulated deficit of \$120.4 million. We expect to incur additional costs and expenses related to the continued development and expansion of our business, including our research and development operations, continued operation of our pilot plants and demonstration facility and engineering and design work. Further, we expect to incur costs related to the facility that we are developing with Usina São Martinho and adoption of our technology at other sugar and ethanol mills. There can be no assurance that we will ever achieve or sustain profitability on a quarterly or annual basis.

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If we are unable to decrease our production costs, we may not be able to produce our products at competitive prices and our business will not succeed.

We have developed the ability to create yeast strains that are capable of converting feedstocks into desired target molecules that form the basis of our products. The successful development of our business depends on our ability to increase the efficiency with which we produce these target molecules from feedstock. Our production costs are primarily driven by our ability to increase the yield from our yeast strains and other production factors.

Yield refers to the amount of the desired molecule that can be produced from a fixed amount of feedstock. We believe that we will be able to enter certain specialty chemical markets with farnesene if we can attain at commercial production scale the 15% yield that we have achieved at two liter scale. While we believe that we will be able to attain this level of yield of farnesene in commercial production, we cannot assure you that we will do so on the timeline we have planned or at all. If we cannot, it is likely that we will not be able to commercialize farnesene in a timely manner, and in that event, our business would be materially and adversely affected.

In order to successfully enter transportation fuels and certain other specialty chemical markets, our yeast strains must produce those products at substantially higher yields than we have achieved to date. We have produced and screened several hundred thousand yeast strains to reach our current farnesene yield levels and anticipate having to produce and screen hundreds of thousands of additional strains as we seek to achieve the requisite yield levels to enter these larger markets. We may never achieve the yields needed for us to profitably enter these markets. Further, yield improvement is generally not achieved on a linear basis over time, which makes it difficult for us to predict with a high level of specificity when, if ever, new yield levels will be attained. If we are delayed, or are not successful, in improving the yield of farnesene with our yeast strains, our ability to enter a number of the markets that we are currently targeting will similarly be delayed or precluded and our ability to grow our business will be impaired.

Additional factors that impact our production cost include productivity, separation efficiency and chemical process efficiency. Productivity represents the rate at which our product is produced by a given yeast strain. Separation efficiency refers to the amount of desired product produced in the fermentation process that we are able to extract and the time that it takes to do so. Chemical process efficiency refers to the cost and yield for the chemical finishing steps that convert our target molecule into a desired product. Our ability to lower our production costs to enter and successfully compete in our target markets over time is contingent on efficiency gains of yield and these additional factors.

We have no experience producing our products at the commercial scale needed for the development of our business, and we will not succeed if we cannot effectively scale our technology and processes.

In addition to further developing our yeast strains to achieve acceptable production costs, we must demonstrate the ability to utilize our yeast strains to produce the desired products at commercial scale on an economically viable basis. Such production will require that our technology and processes be scalable from laboratory, pilot and demonstration projects to commercial scale production. Our technology may not perform as expected when applied at a commercial production level, or we may encounter operational challenges for which we are unable to devise a workable solution. For example, contamination in the production process could decrease process efficiency, create delays or increase our costs. We may not be able to scale up our production in a timely manner, if at all, even if we successfully complete product development in our laboratories and pilot and demonstration facilities. If this occurs, our ability to commercialize our technology will be adversely affected, and with respect to any products that we do bring to market, we may not be able to lower the cost of production, which would adversely affect our ability to increase the future profitability of our business.

Our ability to commence commercial sales of our products in 2011 is subject to a number of risks, any of which could delay our sales and adversely impact our customer relationships, business and results of operations.

We are seeking to commercial sales of our initial products for specialty chemical applications in 2011. We do not currently have definitive agreements with customers and may not be able to enter into supply

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agreements on terms acceptable to us or at all. We are focusing our sales and marketing efforts on working with a small number of target customers and will need to convince them that our products are comparable to or better than the specialty chemicals they currently use and that we seek to replace. In addition, these customers will need to complete product qualification procedures which may not be achieved in a timely manner or at all.

In order to commence sales in 2011, we must secure production capacity with contract manufacturers. Such capacity may not be available to us at prices or on terms acceptable to us, or at all. While we are in active discussions with several contract manufacturers, we do not currently have definitive agreements with contract manufacturers that would provide the production capacity required to achieve commercialization of our products in 2011 at the volumes we intend, or at all. In addition, certain contract manufacturers may not have the equipment required for the production of our products and we cannot be assured that such equipment can be ordered or installed on a timely basis or at all. In addition, we will need to transfer our yeast strains and production processes to each of our contract manufacturing facilities, and we may face technical or operational challenges that delay the start-up of production or increase our costs. The failure of our contract manufacturers to produce our initial products on a timely basis or at all, or to produce our products in accordance with quality specifications or in volumes sufficient to meet our customer demand, could harm our relationships with our customers. Additionally, we have not tested our current yeast strains at commercial scale production levels, and our production costs will be impacted by the progress we make in improving the yield, productivity, separation efficiency and chemical process efficiency of our production process before we commence 2011 production. If we are unable to make the necessary progress, we may nonetheless decide to commence sales of our products at a loss in order to establish demand for our products and develop customer relationships, which could adversely affect our results of operations.

If our joint venture production facility with Usina São Martinho in Brazil does not successfully commence operations in the second quarter of 2012, our customer relationships, business and results of operations may be adversely affected.

We have selected Brazil as the optimal geography for the initial commercial production of our products, largely because of the availability of sugarcane as a feedstock and the existing infrastructure for producing, gathering and processing this sugarcane. Our business plan envisions that we will develop our production capacity in Brazil by demonstrating to existing sugar and ethanol producers the economic advantages of producing our products in addition to, or in lieu of, their current products. In order to have control over the development of our first commercial production facility in Brazil, we entered into an agreement with Usina São Martinho, one of the largest sugar and ethanol producers in Brazil, for the joint ownership and development of a production facility at the Usina São Martinho mill.

In order for our production facility at Usina São Martinho to meet our goal of commencing production in the second quarter of 2012, we must successfully complete the designs and other plans needed for the construction of this facility and secure in a timely manner the requisite permits, licenses and other governmental approvals in Brazil for doing so. Issuance of permits is subject to government review and may require, among other conditions, modification of plans or remediation of environmental impacts at the Usina São Martinho site. Construction of the facility must also be completed on a timely basis and within the budget. Once the facility is operational, it must perform as we have designed it. If we encounter significant delays, cost overruns, engineering problems, equipment supply constraints or other serious challenges in bringing this facility online, we may be unable to produce our initial renewable products in the time frame we have planned, or we may continue to use contract manufacturing sources, which would reduce our expected gross margins. Further, if our efforts to complete, and commence production at, this facility are not successful, other mill owners in Brazil may decide not to work with us to develop additional production facilities, demand more favorable terms or delay their commitment to invest capital in our production.

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Our joint venture with Usina São Martinho contemplates that we will make significant capital expenditures and subjects us to certain legal and financial terms that could adversely affect us.

In April 2010, we entered into a joint venture with Usina São Martinho to build a new production facility for the production of our products at the Usina São Martinho sugar and ethanol mill located in São Paulo state. The terms of this joint venture are complex and are set forth in agreements that include several schedules that the parties anticipate will be converted into definitive agreements. If we and Usina São Martinho are unable to complete the agreements contemplated by these schedules, our ability to commence operations under the joint venture will be delayed and may never occur. Further, if we and Usina São Martinho disagree over the interpretation of the joint venture documents, the future success of the joint venture may be impaired and any amount that we have invested in it may be at risk.

The construction of the facility at Usina São Martinho will be the first project of this nature which we will design and manage. We expect the construction costs of the new facility to total between \$80 million to \$100 million. Under the terms of our joint venture agreement, construction of the production facility will take place in two phases. Phase I is designed to construct a facility capable of producing farnesene from up to one million tons of crushed sugarcane and Phase II will add capacities of up to a second million tons. Within one year of the commencement of Phase I commercial operations, Usina São Martinho will be required to reimburse us for half of the cost of Phase I, up to a cap of 30.9 million reais (\$17.5 million based on exchange rate at April 2, 2010). Thereafter, Usina São Martinho will co-fund the construction of Phase II and, as necessary, make a final payment at completion such that their total contribution will be 61.8 million reais (\$35.0 million based on exchange rate at April 2, 2010).

The difference in the amounts and timing of our capital contributions relative to Usina São Martinho s could leave us vulnerable in the event we encounter challenges in building the facility or bringing it online, delays in achieving commercial viability with our farnesene production process, disputes with Usina São Martinho or other unanticipated events that may occur prior to the time Usina São Martinho makes its capital contribution. In addition, because Usina São Martinho s contribution is capped, we will bear the responsibility for construction costs in excess of those anticipated.

The joint venture will be managed by a three member executive committee, of which we appoint two members, including the plant director who is the most senior executive. The executive committee will be responsible for managing the construction and operation of the production facility. The joint venture will be governed by a four member board of directors, of which we and Usina São Martinho will each appoint two members. The board of directors has certain protective rights which include final approval of the engineering designs and project work plan developed and recommended by the executive committee. If our directors and the Usina São Martinho directors fail to reach agreement on approval of the engineering designs or project work plans, construction of the facility could be delayed or terminated. Further, Usina São Martinho has the right to terminate the joint venture under certain circumstances. If the joint venture is terminated, we would be required to buy the joint venture s assets at fair value and transfer them to another location. In that event, we could incur significant unexpected costs and be required to find alternative locations for our facility, which would substantially delay the commencement of production.

Under the terms of the joint venture agreements, if Amyris Brasil becomes controlled, directly or indirectly, by a competitor of Usina São Martinho, then Usina São Martinho has the right to acquire our interest in the joint venture. If Usina São Martinho becomes controlled, directly or indirectly, by a competitor of ours, then we have the right to sell our interest in the joint venture to Usina São Martinho. In either case, the purchase price shall be determined in accordance with the joint venture agreements, and we would continue to have the obligation to acquire products produced by the joint venture for the remainder of the term of the supply agreement then in effect even though we would no longer be involved in the joint venture s management.

The joint venture has agreed to purchase, and Usina São Martinho has agreed to provide, feedstock for a price that is based on the average return that Usina São Martinho could receive from the production of its current

products, sugar and ethanol. If the cost of these products increases relative to the price at which we can sell the output that we are required to purchase from the joint venture, our return on sales of products produced by the joint venture would be adversely affected. We are required to purchase the output of the joint venture for the first four years at a price that guarantees the return of Usina São Martinho s investment plus a fixed interest rate. We may not be able to sell the output at a price that allows us to achieve anticipated, or any, level of profitability on the product we acquire under these terms. Similarly, the return that we are required to provide the joint venture for products after the first four years may have an adverse effect on the profitability we achieve from acquiring the mill s output. Finally, our purchase obligation with the mill requires us to purchase the output regardless of whether we have a customer for such output, and our results of operations and financial condition would be adversely affected if we are unable to sell the output that we are required to purchase.

We plan to enter into arrangements with Brazilian sugar and ethanol producers to produce our products, and if we are not able to complete these arrangements in a timely manner and on terms favorable to us, our business will be adversely affected.

To expand our production in Brazil beyond that of our initial production facility with Usina São Martinho, we intend to enter into agreements with sugar and ethanol producers in Brazil that require them to make a substantial capital or operating contribution to produce our renewable products. In return, we expect to provide them with a share of the higher gross margin we believe we will realize from the sale of these products relative to their existing products. There can be no assurance that a sufficient number of Brazilian sugar and ethanol mill owners will accept the opportunity to partner with us for the production of our products, whether on those terms or at all. Reluctance on the part of mill owners may be caused, for example, by their failure to understand our technology or product opportunities or agree with the greater economic benefits that we believe they can achieve from partnering with us. Mill owners may also be reluctant or unable to obtain needed capital, or they may be limited by existing contractual obligations with other third parties, liability, health and safety concerns, and additional maintenance, training, operating and other ongoing expenses. We have entered into letters of intent with three Brazilian sugar and ethanol producers to produce our products and Usina São Martinho has the option for production at a second mill, but these do not bind either the mill owner or us to enter into and proceed with a formal relationship. There are numerous issues regarding these mill relationships that must be successfully negotiated with each of the mill owners and we may not be successful in completing these negotiations. Even if sugar and ethanol producers are willing to build new facilities and produce our products, they may do so only on economic terms that place more of the cost, or confer less of the economic return, on us than we currently anticipate. If we are not successful in negotiations with sugar and ethanol mill owners, our cost of gaining this production capacity may be higher than we anticipate in terms of up-front costs, capital expenditure or lost future returns, and we may not gain the production base that we need in Brazil to allow us to grow our business.

Building new, bolt-on facilities adjacent to existing sugar and ethanol mills for production of our products requires significant capital, and if mill owners are unwilling to contribute, or do not have or have access to this capital, production of our products would be more limited or more expensive than expected and our business would be harmed.

We expect to expand our production capacity using a capital light approach, through which mill owners would invest a substantial portion or all of the capital needed to build our bolt-on production facilities, in exchange for a share of the higher gross margin from the sale of our renewable chemicals and fuels, as compared to their current products. Mill owners may perceive this construction as a costly process requiring substantial capital or operating contribution. Mill owners may not have sufficient capital of their own for this purpose or may not be willing or able to secure financing. As a result, they may choose not to contribute the amount of capital that we anticipate or may need to seek external sources of financing, which may not be available. If the mill owner needs to obtain financing through debt, we may be required to provide a guarantee.

Even if sugar and ethanol producers are attracted to the opportunity, they may not attract the credit that they need or want to do so. In the past, Brazil has experienced very high rates of inflation, and the government s

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measures to control inflation have often included maintaining a tight monetary policy with high interest rates, restricting the availability of credit. Limitations in the credit markets that would impede or prevent this kind of financing could adversely affect our ability to develop the production capacity needed to allow us to grow our business.

Our strategy of relying on existing Brazilian sugar and ethanol producers to produce our products will make us substantially dependent on these owners, and they may not perform their obligations under agreements with us or otherwise perform to our standards.

Even if we reach agreements with Brazilian sugar and ethanol producers to produce our products, initially the mill owners will be unfamiliar with our technology and production processes. We cannot be sure that the owners will have or develop the operational expertise needed to run the additional equipment and processes required to produce our products. Further, we may have limited control over the application of our specifications and quality requirements and the amount or timing of resources that any mill owner is able or willing to devote to production of our products. Mill owners may fail to perform their obligations as expected or may breach or terminate key terms of their agreements with us, such as the obligation to provide the agreed-upon amount of sugarcane feedstock for the production of our products. Moreover, disagreements with one or more mill owners could develop, and any conflict with a mill owner could negatively impact our relationship, and reduce our ability to enter into future agreements, with other sugar and ethanol mill owners. Furthermore, the sugar and ethanol mills may be subject to unanticipated disruptions to operations such as unscheduled down times, operational hazards, equipment failures, labor disruptions, land reform movements, political disruptions and natural disasters, thus preventing or delaying the production of our products. If our sugar and ethanol mill partners in Brazil fail to successfully operate the production facilities for our products, or terminate their relationships with us, such operational difficulties could adversely impact the timely and efficient production of our products. As a result, our business, results of operations and financial condition could be harmed.

Our reliance on contract manufacturers to produce our products during construction of our Usina São Martinho joint venture production facility and periodically for additional short-term production capacity exposes us to risks relating to the price and availability of that contract manufacturing and could adversely affect our growth.

We anticipate commencing production of certain of our products in 2011 through the use of contract manufacturers prior to the time that our joint venture facility in Brazil is ready to commence production. Similarly, as we grow and look to bring new facilities on line, it is possible that there will be periods when the demand for our products exceeds our production capacity. We intend to seek to enter relationships with contract manufacturers for these purposes. We cannot be sure that contract manufacturers with this capacity will be available when we need their services, that they will be willing to dedicate a portion of their production capacity to our products or that we will be able to reach acceptable price and other terms with them for the provision of their production services. If we are unable to secure the services of such third parties when and as needed, we may lose customer opportunities and the growth of our business may be impaired. In addition, we expect that our costs to produce products using contract manufacturers will be higher than the costs to produce our products in sugar and ethanol mills with which we have entered into long term relationships.

The production of our products will require sugar feedstock, and the inability to obtain such feedstock in sufficient quantities or in a timely manner may limit our ability to produce our products.

We anticipate that the production of our products will require large volumes of feedstock, initially Brazilian sugarcane. We cannot predict the future availability of such feedstock or be sure that our mill partners, which we expect to supply the sugarcane necessary to produce our products, will be able to supply it in sufficient quantities or in a timely manner. Crop yields and sugar content depend on weather conditions, such as rainfall and temperature, that vary. Weather conditions have historically caused volatility in the ethanol and sugar industries

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by causing crop failures or reduced harvests. Excessive rainfall can adversely affect the supply of sugarcane available for the production of our products by reducing the sucrose content and limiting growers—ability to harvest. Crop disease and pestilence can also occur from time to time and can adversely affect sugarcane growth, potentially rendering useless or unusable all or a substantial portion of affected harvests. The limited amount of time during which sugarcane keeps its sugar content after harvest and the fact that sugarcane is not itself a traded commodity increases these risks and limits our ability to substitute supply in the event of such an occurrence. If Brazilian sugarcane production is adversely affected by these or other conditions, our ability to produce our products will be impaired, and our business will be adversely affected.

An increase in the price and profitability of ethanol and sugar relative to our products could adversely affect our arrangements with sugar and ethanol producers.

In order to induce owners of sugar and ethanol facilities to produce our products, we plan to compensate them for the feedstock consumed in the production of our products in an amount equal to the revenue they would have realized had they instead produced their traditional products, plus any incremental costs incurred in the production of our products over their usual production costs. Finally, as we sell our products, we expect to share a portion of the realized gross margin with these mill owners. An increase in the price of ethanol or sugar relative to the price at which we can sell our products could result in the cost of our products increasing without a corresponding increase in the price at which we can sell our products. In this event our results of operations would be adversely affected. If ethanol prices are sufficiently high so that the return from converting a given amount of sugarcane to ethanol exceeds the return from converting that amount of sugarcane into our products, then we will have to compensate the mill owner for that loss or risk the mill owner reverting to the production of ethanol and not produce our products at all.

Many factors could cause this unfavorable price dislocation. If sugar prices increase over a sustained period of time, this may encourage sugar production at the expense of ethanol in mills with flexibility to produce both products, which in turn could cause domestic prices in Brazilian reais for ethanol to increase. In addition, the Brazilian government currently requires the use of anhydrous ethanol as a gasoline additive. Any change in these government policies could affect ethanol demand in a way that discourages mill owners from producing our products.

The price of sugarcane feedstock can be volatile as a result of changes in industry policy and may increase the cost of production of our products.

In Brazil, sugarcane prices may increase due, among other things, to changes in the criteria set by the *Conselho dos Produtores de Cana, Açúcar e Álcool* (Council of Sugarcane, Sugar and Ethanol Producers), or Consecana. Consecana is an industry association of producers of sugarcane, sugar and ethanol that sets market terms and prices for general supply, lease and partnership agreements and may change such prices and terms. Such changes could result in higher sugarcane prices and/or a significant decrease in the volume of sugarcane available for the production of our products, which could adversely our business and results of operations.

Most of our planned initial production capacity will be in Brazil, and our business will be adversely affected if we do not operate effectively in that country.

For the foreseeable future, we will be subject to risks associated with the concentration of essential product sourcing and operations in Brazil. In the past, the Brazilian economy was characterized by frequent and occasionally extensive intervention by the Brazilian government and unstable economic cycles. The Brazilian government has changed in the past, and may change in the future, monetary, taxation, credit, tariff and other policies to influence the course of Brazil s economy. For example, the government s actions to control inflation have at times involved setting wage and price controls, adjusting interest rates, imposing taxes and exchange controls and limiting imports into Brazil. We have no control over, and cannot predict, what policies or actions the Brazilian government may take in the future. For example, the Brazilian government may

take actions to

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support state-controlled entities in our industry that could adversely affect us. Our business, financial performance and prospects may be adversely affected by, among others, the following factors:



Such factors could have a material adverse impact on our results of operations and financial condition.

In addition, Brazilian presidential and parliamentary elections will take place in October 2010. The Brazilian president has significant power to determine public policies and introduce measures affecting the Brazilian economy and companies such as ours. The new government, whether or not controlled by the current president s political party, may seek to implement changes to existing public policies. For example, the current or future government may face pressure to reduce public investments (including investments in infrastructure), due to increasing inflation and public debt. This could have a material adverse impact on our operations.

We cannot predict whether the current or future Brazilian government will implement changes to existing policies on taxation, exchange controls, monetary strategy and social security, among others. We cannot estimate the impact of any such changes on the Brazilian economy or our operations.

We may face risks relating to the use of our genetically modified yeast strains and if we are not able to secure regulatory approval for the use of our yeast strains or if we face public objection to our use of them, our business could be adversely affected.

The use of genetically modified microorganisms (GMMs), such as our yeast strains, is subject to laws and regulations in many countries, some of which are new and some of which are still evolving. Public attitudes about the safety and environmental hazards of, and ethical concerns over, genetic research and GMMs could influence public acceptance of our technology and products. In the U.S., the Environmental Protection Agency

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(EPA) regulates the commercial use of GMMs as well as potential products from the GMMs. While the strain of genetically modified yeast that we currently use for the development and anticipate using for the commercial production of our target molecules, *S. cerevisiae*, is eligible for exemption from EPA review because it is recognized as posing a low risk, we must satisfy certain criteria to achieve this exemption, including but not limited to use of compliant containment structures and safety procedures, and we cannot be sure that we will meet such criteria in a timely manner, or at all. If exemption of *S. cerevisiae* is not obtained, our business may be substantially harmed.

In addition to *S. cerevisiae*, we may seek to use different GMMs in the future that will require EPA approval. If approval of different GMMs is not secured, our ability to grow our business could be adversely affected.

In Brazil, GMMs are regulated by the National Biosafety Technical Commission, or CTNBio. We have obtained approval from CTNBio to use GMMs in a contained environment in our Campinas facilities for research and development purposes. In addition, we have obtained initial commercial approval from CTNBio for one of our current yeast strains. As we continue to develop new yeast strains, we will be required to obtain further approvals from CTNBio in order to use these strains in commercial production in Brazil. We may not be able to obtain approvals from relevant Brazilian authorities on a timely basis, or at all, and if we do not, our ability to produce our products in Brazil would be impaired, which would adversely affect our results of operations and financial condition.

We expect to encounter GMM regulations in most if not all of the countries in which we may seek to establish production capabilities, and the scope and nature of these regulations will likely be different from country to country. If we cannot meet the applicable requirements in other countries in which we intend to produce products using our yeast strains, or if it takes longer than anticipated to obtain such approvals, our business could be adversely affected.

We may not be able to obtain regulatory approval for the sale of our renewable products.

Our renewable chemical products may be subject to government regulation in our target markets. In the U.S., the EPA administers the Toxic Substances Control Act, or TSCA, which regulates the commercial registration, distribution, and use of chemicals. Before an entity can manufacture or distribute significant volumes of a chemical, it needs to determine whether that chemical is listed in the TSCA inventory. If the substance is listed, then manufacture or distribution can commence immediately. If not, then a pre-manufacture notice must be filed with the EPA for a review period of up to 180 days including extensions. Some of the products we produce or plan to produce, such as farnesene and squalane, are already in the TSCA inventory. Others, such as our lubricants, diesel and jet fuel, are not yet listed. We may not be able to expediently receive approval from the EPA to list the molecules we would like to make on the TSCA registry, resulting in delays or significant increases in testing requirements. A similar program exists in the European Union, called REACH (Registration, Evaluation, Authorization, and Restriction of Chemical Substances). We similarly need to register our products with the European Commission, and this process could cause delays or significant costs. To the extent that other geographies, such as Brazil, may rely on TSCA or REACH for chemical registration in their geographies, delays with the U.S. or European authorities may subsequently delay entry into these markets as well.

Our diesel fuel is subject to regulation by various government agencies, including the EPA and the California Air Resources Board in the U.S. and Agencia Nacional do Petroleo, or ANP, in Brazil. To date, we have obtained registration with the EPA for the use of our diesel in the U.S. at a 20% blend rate with petroleum diesel. We are currently seeking supplemental EPA registration for a 35% blend rate and working to secure ANP approval for use of our diesel in Brazil at a 10% blend rate. We are currently in process of registration of our fuel with the California Air Resources Board and the European Commission. Registration with each of these bodies is required for the sale and use of our fuels within their respective jurisdictions.

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We expect to encounter regulations in most if not all of the countries in which we may seek to sell our renewable chemical and fuel products, and we cannot assure you that we will be able to obtain necessary approvals in a timely manner or at all. If our chemical and fuel products do not meet applicable regulatory requirements in a particular country or at all, then we may not be able to commercialize our products and our business will be adversely affected.

We cannot assure you that our products will be approved or accepted by customers in specialty chemical markets.

The markets we intend to enter first are those for specialty chemical products used by large consumer products or specialty chemical companies. In entering these markets, we intend to sell our products as alternatives to chemicals currently in use, and in some cases the chemicals that we seek to replace have been used for many years. The potential customers for our molecules generally have well developed manufacturing processes and arrangements with suppliers of the chemical components of their products and may have a resistance to changing these processes and components. These potential customers frequently impose lengthy and complex product qualification procedures on their suppliers, influenced by consumer preference, manufacturing considerations such as process changes and capital and other costs associated with transitioning to alternative components, supplier operating history, regulatory issues, product liability and other factors, many of which are unknown to, or not well understood by, us. Satisfying these processes may take many months or years. If we are unable to convince these potential customers that our products are comparable to the chemicals that they currently use or that the use of our products is otherwise to their benefits, we will not be successful in entering these markets and our business will be adversely affected.

If we are unable to satisfy the significant product certification requirements of equipment manufacturers, we may not be able to successfully enter markets for transportation fuels, and our business would be adversely affected.

In order for our diesel fuel product to be accepted in various countries around the world, diesel engine manufacturers must certify that the use of our fuels in their equipment will not invalidate product warranties and that they otherwise regard our diesel as an acceptable fuel. In addition, we must successfully demonstrate to these manufacturers that our fuel does do not degrade the performance or reduce the lifecycle of their engines or cause them to fail to meet emissions standards. Meeting these suitability standards can be a time consuming and expensive process, and we may invest substantial time and resources into such qualification efforts without ultimately securing approval. To date, our diesel fuel products have achieved limited approvals from certain engine manufacturers, but we cannot be assured that other engine or vehicle manufacturers or fleet operators, will approve usage of our fuels. Although our diesel fuel satisfies existing pipeline operator and fuel distributor requirements, such fuel has not been reviewed nor transported by such operators as of this date. If these operators impose volume limitations on the transport of our fuels, our ability to sell our fuels may be impaired.

Our ability to sell a jet fuel product will be subject to the same types of qualification requirements as our diesel fuel, although we believe the qualification process will take longer and will be more expensive than the process for diesel.

We expect our international operations to expose us to the risk of fluctuation in currency exchange rates and rates of foreign inflation, which could adversely affect our results of operations.

We currently incur some costs and expenses in Brazilian reais and may in the future incur additional expenses in foreign currencies and derive a portion of our revenues in the local currencies of customers throughout the world. As a result, our revenues and results of operations are subject to foreign exchange fluctuations, which we may not be able to manage successfully. During the past few decades, the Brazilian currency in particular faced frequent and substantial exchange rate fluctuations in relation to the U.S. dollar and other foreign currencies. For example, the real appreciated 12.3%, 8.7% and 17.0% against the U.S. dollar in

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2005, 2006, and 2007 respectively. As a result of the global financial crisis in mid-2008, the real depreciated 31.9% against the U.S. dollar. In 2009, due in part to the recovery of the Brazilian economy at a faster rate than the global economy, the real once again appreciated 25% against the U.S. dollar. There can be no assurance that the real will not significantly appreciate or depreciate against the U.S. dollar in the future.

We bear the risk that the rate of inflation in the foreign countries where we incur costs and expenses or the decline in value of the U.S. dollar compared to those foreign currencies will increase our costs as expressed in U.S. dollars. Future measures by the Central Bank of Brazil to control inflation, including interest rate adjustments, intervention in the foreign exchange market and changes to the fixed the value of the real, may trigger increases in inflation. Whether in Brazil or otherwise, we may not be able to adjust the prices of our products to offset the effects of inflation on our cost structure, which could increase our costs and reduce our net operating margins. If we do not successfully manage these risks through hedging or other mechanisms, our revenues and results of operations could be adversely affected.

We expect to face competition for our specialty chemical and transportation fuels products from providers of petroleum-based products and from other companies seeking to provide alternatives to these products, and if we cannot compete effectively against these companies or products we may not be successful in bringing our products to market or further growing our business after we do so.

We expect that our renewable products will compete with both the traditional, largely petroleum-based specialty chemical and fuels products that are currently being used in our target markets and with the alternatives to these existing products that established enterprises and new companies are seeking to produce. Amyris Fuels competes with other ethanol distributors in buying and selling third party ethanol.

In the specialty chemical markets that we will seek to enter initially, and in other chemical markets that we may seek to enter in the future, we will compete with the established providers of chemicals currently used in these products. Producers of these incumbent products include global oil companies, large international chemical companies and other companies specializing in specific products, such as squalane or essential oils. We may also compete in one or more of these markets with products that are offered as alternatives to the traditional petroleum-based or other traditional products being offered in these markets.

In the transportation fuels market, we expect to compete with independent and integrated oil refiners, advanced biofuels companies and biodiesel companies. These refiners compete with us by selling traditional fuel products and some are also pursuing hydrocarbon fuel production using non-renewable feedstocks, such as natural gas and coal, as well as processes using renewable feedstocks, such as vegetable oil and biomass. We also expect to compete with companies which are developing the capacity to produce diesel and other transportation fuels from renewable resources in other ways. These include advanced biofuels companies using specific enzymes that they have developed to convert cellulosic biomass, which is non-food plant material such as wood chips, corn stalks and sugarcane bagasse, into fermentable sugars. Similar to us, some companies are seeking to use engineered enzymes to convert sugars, in some cases from cellulosic biomass and in others from natural sugar sources, into renewable diesel and other fuels. Biodiesel companies convert vegetable oils and animal oils into diesel fuel and some are seeking to produce diesel and other transportation fuels using thermochemical methods to convert biomass into renewable fuels.

We believe the primary competitive factors in both the chemicals and fuels markets are:

product price;

product performance and other measures of quality;

infrastructure compatibility of products;	
sustainability; and	
dependability of supply.	

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The oil companies, large chemical companies and well-established agricultural products companies with whom we compete are much larger than we are, have, in many cases, well developed distribution systems and networks for their products, have valuable historical relationships with the potential customers we are seeking to serve and have much more extensive sales and marketing programs in place to promote their products. In order to be successful, we must convince customers that our products are at least as effective as the traditional products they are seeking to replace and must provide our products on a cost-competitive basis with these traditional products and other available alternatives. Some of our competitors may use their influence to impede the development and acceptance of renewable products of the type that we are seeking to produce.

We believe that for our chemical products to succeed in the market, we must demonstrate that our products are comparable alternatives to existing products and to any alternative products that are being developed for the same markets based on some combination of product cost, availability, performance and consumer preference characteristics. With respect to our diesel and other transportation fuels products, we believe that our product must perform as effectively as petroleum-based fuel, or alternative fuels, and be available on a cost-competitive basis. In addition, with the wide range of renewable fuels products under development, we must be successful in reaching potential customers and convincing them that ours are effective and reliable alternatives.

Amyris Fuels currently competes with regional ethanol distributors in its purchase, distribution and sale of third party ethanol in the southeastern U.S. and competes with other suppliers based on price, convenience and reliability of supply.

We have limited experience in structuring arrangements with customers for the purchase of our renewable products, and we may not be successful in this essential aspect of our business.

We expect that the customers for our products will be large companies currently selling chemical products for various consumer and other applications and large users of diesel fuel. As a company that has not yet completed the development of our products, we have limited experience operating in the industries or interacting with the customers we intend to target. The development of expertise in these markets may take a longer period of time than we expect and will require that we expand our sales and marketing infrastructure. These events could delay our ability to capitalize on the opportunities presented to us by our technology and products, including preventing us from achieving commercialization of our initial products in 2011. Further, we expect to sell large amounts of our products to specific customers, and this will require that we effectively negotiate contracts for these purchase and sale relationships. The companies with which we expect to have customer arrangements are, in general, much larger and have substantially greater operating histories and experience in target industries than we have. As a result, we may not be effective in negotiating the terms of our relationships with these companies, which could adversely affect our future results of operations.

A decline in the price of petroleum and petroleum-based products may reduce demand for many of our renewable products and may otherwise adversely affect our business.

We anticipate that most of our renewable products, and in particular our fuels, will be marketed as alternatives to corresponding petroleum-based products. If the price of oil falls, we may be unable to produce products that are a cost-effective alternatives to their petroleum-based products. Declining oil prices, or the perception of a future decline in oil prices, may adversely affect the prices we can obtain from our potential customers or prevent potential customers from entering into agreements with us to buy our products. During sustained periods of lower oil prices we may be unable to sell our products, which could materially and adversely affect our operating results.

Our pursuit of new product opportunities may not be technically feasible, which would limit our ability to expand our product line and sources of revenues.

Our technology provides us with the capability to genetically engineer microbes to produce potentially thousands of molecules. In order to grow our business over time we will need to, and we intend to, commit

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substantial resources to the development and analysis of these new molecules and the new pathways, or microbial strains, required to produce them. There is no guarantee that we will be successful in creating microbial strains that are capable of producing each target molecule. For example, some target molecules may be toxic to the microbe, which means that the production of the molecule kills the microbe. Other molecules may be biologically producible in small amounts but cannot be produced in quantities adequate for commercial production. In addition, some of our microbes may have longer production cycles that may make production of the target molecules more costly. If we are unable to resolve issues of this nature, we may not be able to expand our product line to introduce new sources of revenues.

Changes in government regulations, including subsidies and economic incentives, could have a material adverse effect upon our business and results of operations.

The market for renewable fuels is heavily influenced by foreign, federal, state and local government regulations and policies. Changes to existing or adoption of new domestic or foreign federal, state and local legislative initiatives that impact the production, distribution or sale of renewable fuels may harm our business. For example, in 2007, the U.S. Congress passed an alternative fuels mandate that currently calls for 13 billion gallons of liquid transportation fuels sold in 2010 to come from alternative sources, including renewable fuels, a mandate that grows to 36 billion gallons by 2022. Of this amount, a minimum of 21 billion gallons must be advanced biofuels. In the U.S. and in a number of other countries, these regulations and policies have been modified in the past and may be modified again in the future. Any reduction in mandated requirements for fuel alternatives and additives to gasoline may cause demand for biofuels to decline and deter investment in the research and development of renewable fuels. In addition, the U.S. Congress has passed legislation that extends tax credits to blenders of certain renewable fuel products. However, there is no assurance that this or any other favorable legislation will remain in place. For example, the biodiesel tax credit expired in December 2009, and its extension was not approved until March 2010. Any reduction in, or phasing out or elimination of existing tax credits, subsidies and other incentives in the U.S. and foreign markets for renewable fuels, or any inability of our customers to access such credits, subsidies and incentives, may adversely affect demand for our products and increase the overall cost of commercialization of our renewable fuels, which would adversely affect our business. In addition, market uncertainty regarding future policies may also affect our ability to develop new renewable products or to license our technologies to third parties and to sell products to our end customers. Any inability to address these requirements and any regulatory or policy changes could have a material adverse effect on our business, financial condition and results of operations.

Concerns associated with renewable fuels, including land usage, national security interests and food crop usage, are receiving legislative industry and public attention. This could result in future legislation, regulation and/or administrative action that could adversely affect our business. Any inability to address these requirements and any regulatory or policy changes could have a material adverse effect on our business or the business of our partners or customers, financial condition and results of operations.

Furthermore, the production of our products will depend on the availability of feedstock, especially sugarcane. Agricultural production and trade flows are subject to government policies and regulations. Governmental policies affecting the agricultural industry, such as taxes, tariffs, duties, subsidies, incentives and import and export restrictions on agricultural commodities and commodity products, can influence the planting of certain crops, the location and size of crop production, whether unprocessed or processed commodity products are traded, the volume and types of imports and exports, and the availability and competitiveness of feedstocks as raw materials. Future government policies may adversely affect the supply of sugarcane, restrict our ability to use sugarcane to produce our products, and negatively impact our revenues and results of operations.

We may incur significant costs complying with environmental laws and regulations, and failure to comply with these laws and regulations could expose us to significant liabilities.

We use hazardous chemicals and radioactive and biological materials in our business and are subject to a variety of federal, state and local laws and regulations governing the use, generation, manufacture, storage,

handling and disposal of these materials both in the U.S. and overseas. Although we have implemented safety procedures for handling and disposing of these materials and waste products in an effort to comply with these laws and regulations, we cannot be sure that our safety measures are compliant or capable of eliminating the risk of accidental injury or contamination from the use, storage, handling or disposal of hazardous materials. In the event of contamination or injury, we could be held liable for any resulting damages, and any liability could exceed our insurance coverage. There can be no assurance that violations of environmental, health and safety laws will not occur in the future as a result of human error, accident, equipment failure or other causes. Compliance with applicable environmental laws and regulations may be expensive, and the failure to comply with past, present, or future laws could result in the imposition of fines, third party property damage, product liability and personal injury claims, investigation and remediation costs, the suspension of production, or a cessation of operations, and our liability may exceed our total assets. Liability under environmental laws can be joint and several and without regard to comparative fault. Environmental laws could become more stringent over time, imposing greater compliance costs and increasing risks and penalties associated with violations, which could impair our research, development or production efforts and harm our business.

Our financial results could vary significantly from quarter to quarter and are difficult to predict.

Our revenues and results of operations could vary significantly from quarter to quarter because of a variety of factors, many of which are outside of our control. As a result, comparing our results of operations on a period-to-period basis may not be meaningful. Factors that could cause our quarterly results of operations to fluctuate include:

achievement, or failure to achieve, technology or product development milestones needed to allow us to enter identified markets on a cost effective basis;

delays or greater than anticipated expenses associated with the completion of new production facilities, and the time to complete scale-up of production following completion of a new production facility;

disruptions in the production process at any facility where we produce our products;

the timing, size and mix of sales to customers for our products;

increases in price or decreases in availability of our feedstocks;

the unavailability of contract manufacturing capacity altogether or at anticipated cost;

fluctuations in foreign currency exchange rates;

gains or losses associated with our hedging activities, especially in Amyris Fuels;

fluctuations in the price of and demand for sugar, ethanol, and petroleum-based and other products for which our products are alternatives;

seasonal production and sale of our products;

the effects of competitive pricing pressures, including decreases in average selling prices of our products;

unanticipated expenses associated with changes in governmental regulations and environmental, health and safety requirements;

reductions or changes to existing fuel and chemical regulations and policies;

departure of executives or other key management employees;

our ability to use our net operating loss carry forwards to offset future taxable income;

business interruptions such as earthquakes and other natural disasters;

our ability to integrate businesses that we may acquire;

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risks associated with the international aspects of our business; and

changes in general economic, industry and market conditions, both domestically and in our foreign markets.

Due to these factors and others the results of any quarterly or annual period may not meet our expectations or the expectations of our investors and may not be meaningful indications of our future performance.

Disruption of transportation and logistics services or insufficient investment in public infrastructure could adversely affect our business.

We initially intend to manufacture most of our renewable products in Brazil, where existing transportation infrastructure is underdeveloped. Substantial investments required for infrastructure changes and expansions may not be made on a timely basis or at all. Any delay or failure in making the changes to or expansion of infrastructure could harm demand or prices for our renewable products and impose additional costs that would hinder their commercialization.

In Brazil, a substantial portion of commercial transportation is by truck, which is significantly more expensive than the rail transportation available to U.S. and other international producers. Our dependence on truck transport may affect our production cost and, consequently, impair our ability to compete with petroleum-sourced products in local and world markets.

We may require additional financing in the future and may not be able to obtain such financing on favorable terms, if at all.

We will continue to fund our research and development and related activities and to provide working capital to fund production, storage, distribution and other aspects of our business. In addition, we plan to make significant capital expenditures in connection with our joint venture with Usina São Martinho and other potential mill arrangements. While we plan to enter into relationships with sugar and ethanol producers for them to provide some portion or all of the capital needed to build the new, adjacent bolt-on production facility, we may determine that it is more advantageous for us to provide some portion or all of the financing that we currently expect to be provided by these owners.

If our capital resources are insufficient to meet our capital requirements, we will have to raise additional funds. If future financings involve the issuance of equity securities, our existing stockholders would suffer dilution. If we are able to raise additional debt financing, we may be subject to restrictive covenants that limit our ability to conduct our business. We may not be able to raise sufficient additional funds on terms that are favorable to us, if at all. If we fail to raise sufficient funds and continue to incur losses, our ability to fund our operations, take advantage of strategic opportunities, develop and commercialize products or technologies, or otherwise respond to competitive pressures could be significantly limited. If this happens, we may be forced to delay or terminate research and development programs or the commercialization of products resulting from our technologies, curtail or cease operations or obtain funds through collaborative and licensing arrangements that may require us to relinquish commercial rights, or grant licenses on terms that are not favorable to us. If adequate funds are not available, we will not be able to successfully execute our business plan or continue our business.

Our fuels marketing and distribution business depends, and will depend for the foreseeable future, on purchasing and reselling ethanol produced by third parties, which may not be available to us on favorable terms or at all and which we may be unable to resell.

Amyris Fuels currently purchases and sells ethanol under short-term agreements and in spot transactions. In the future, we plan to continue the purchase and sale of ethanol and to hedge the price volatility of ethanol using futures contracts. We cannot predict the future market price of ethanol or the price or other terms of any supply

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contracts that Amyris Fuels may enter into. We cannot assure you that Amyris Fuels will be able to purchase ethanol at favorable prices, allowing our ethanol marketing activities to be profitable. In addition, there can be no guarantee that futures contracts to hedge the risks from the purchase and sale of ethanol will effectively mitigate risk as intended, that such hedging instruments will always be available, or that counterparties to such hedging contracts will honor their obligations. As a result of these pricing and hedging uncertainties, Amyris Fuels may incur operating losses, harming our results of operations and financial condition. If Amyris Fuels is unable to conduct sales of ethanol on favorable volume, price and other terms, our results of operations and financial condition will be harmed.

The success of our fuels marketing and distribution business depends on our ability to expand our access to financial and infrastructure assets.

In June 2008, we began to distribute ethanol produced by third parties in the U.S. through our wholly-owned subsidiary, Amyris Fuels. Amyris Fuels currently has secured access to certain terminal and other storage capacity for ethanol, and it engages providers of transportation and transloading services for the movement of ethanol. If Amyris Fuels is unable to access sufficient terminal and other storage capacity and/or to obtain transportation and transloading services on favorable terms, its business will be substantially harmed, which will reduce our revenues and adversely affect our results of operations and financial condition.

Growth may place significant demands on our management and our infrastructure.

develop and improve our operational financial and management controls:

We have experienced, and may continue to experience, expansion of our business as we continue to make efforts to develop and bring our products to market. We have grown from approximately 18 employees at the end of 2005 to approximately 221 employees at the end of 2009. We work simultaneously on multiple projects to develop, produce and commercialize several types of renewable chemicals and fuels. Our growth and diversified operations have placed, and may continue to place, significant demands on our management and our operational and financial infrastructure. In particular, continued growth could strain our ability to:

develop and improve our operational, infancial and management condois,
enhance our reporting systems and procedures;
recruit, train and retain highly skilled personnel;
develop and maintain our relationships with existing and potential business partners;
maintain our quality standards; and
maintain customer satisfaction.

Managing our growth will require significant expenditures and allocation of valuable management resources. If we fail to achieve the necessary level of efficiency in our organization as it grows, our business, results of operations and financial condition would be harmed.

If we fail to maintain an effective system of internal controls, we might not be able to report our financial results accurately or prevent fraud; in that case, our stockholders could lose confidence in our financial reporting, which would harm our business and could negatively impact the price of our stock.

Effective internal controls are necessary for us to provide reliable financial reports and prevent fraud. In addition, Section 404 of the Sarbanes-Oxley Act of 2002 will require us and our independent registered public accounting firm to evaluate and report on our internal control over financial reporting beginning with our Annual Report on Form 10-K for the year ending December 31, 2011. The process of implementing our internal controls and complying with Section 404 will be expensive and time consuming, and will require significant attention of management. We cannot be certain that these measures will ensure that we implement and maintain adequate controls over our financial processes and reporting in the future. Even if we conclude, and our independent

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registered public accounting firm concurs, that our internal control over financial reporting provides reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles, because of its inherent limitations, internal control over financial reporting may not prevent or detect fraud or misstatements. Failure to implement required new or improved controls, or difficulties encountered in their implementation, could harm our results of operations or cause us to fail to meet our reporting obligations. If we or our independent registered public accounting firm discover a material weakness, the disclosure of that fact, even if quickly remedied, could reduce the market s confidence in our financial statements and harm our stock price. In addition, a delay in compliance with Section 404 could subject us to a variety of administrative sanctions, including SEC action, ineligibility for short form resale registration, the suspension or delisting of our common stock from the stock exchange on which it is listed and the inability of registered broker-dealers to make a market in our common stock, which would further reduce our stock price and could harm our business.

Our proprietary rights may not adequately protect our technologies and product candidates.

Our commercial success will depend substantially on our ability to obtain patents and maintain adequate legal protection for our technologies and product candidates in the U.S. and other countries. To date, we have 22 issued U.S. and foreign patents and 195 pending U.S. and foreign patent applications that are owned by or licensed to us. We will be able to protect our proprietary rights from unauthorized use by third parties only to the extent that our proprietary technologies and future products are covered by valid and enforceable patents or are effectively maintained as trade secrets.

We apply for patents covering both our technologies and product candidates, as we deem appropriate. However, we may fail to apply for patents on important technologies or product candidates in a timely fashion, or at all. Our existing and future patents may not be sufficiently broad to prevent others from practicing our technologies or from developing competing products or technologies. In addition, the patent positions of companies like ours are highly uncertain and involve complex legal and factual questions for which important legal principles remain unresolved. No consistent policy regarding the breadth of patent claims has emerged to date in the U.S. and the landscape is expected to become even more uncertain in view of recent rule changes by the Patent and Trademark Office, the introduction of patent reform legislation in Congress and recent decisions in patent law cases by the U.S. Supreme Court. In addition, certain key U.S. patents were obtained using a procedure for accelerated examination recently implemented by the U.S. Patent and Trademark Office (USPTO) which requires special activities and disclosures that may create additional risks related to the validity or enforceability of the U.S. patents so obtained. The patent situation outside of the U.S. is even less predictable. As a result, the validity and enforceability of patents cannot be predicted with certainty. Moreover, we cannot be certain whether:

we or our licensors were the first to make the inventions covered by each of our issued patents and pending patent applications;

we or our licensors were the first to file patent applications for these inventions;

others will independently develop similar or alternative technologies or duplicate any of our technologies;

any of our or our licensors patents will be valid or enforceable;

any patents issued to us or our licensors will provide us with any competitive advantages, or will be challenged by third parties;

we will develop additional proprietary products or technologies that are patentable; or

the patents of others will have an adverse effect on our business.

We do not know whether any of our patent applications or those patent applications that we license will result in the issuance of any patents. Even if patents are issued, they may not be sufficient to protect our

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technology or product candidates. The patents we own or license and those that may be issued in the future may be challenged, invalidated, rendered unenforceable, or circumvented, and the rights granted under any issued patents may not provide us with proprietary protection or competitive advantages. In particular, U.S. patents we obtained using the USPTO accelerated examination program may introduce additional risks to the validity or enforceability of some or all of these specially-obtained U.S. patents if validity or enforceability are challenged.

Moreover, third parties could practice our inventions in territories where we do not have patent protection or in territories where they could obtain a compulsory license to our technology where patented. Such third parties may then try to import products made using our inventions into the U.S. or other territories. Additional uncertainty may result from potential passage of patent reform legislation by the U.S. Congress, legal precedent by the U.S. Federal Circuit and Supreme Court as they determine legal issues concerning the scope and construction of patent claims and inconsistent interpretation of patent laws by the lower courts. Accordingly, we cannot ensure that any of our pending patent applications will result in issued patents, or even if issued, predict the breadth, validity and enforceability of the claims upheld in our and other companies patents.

Unauthorized parties may attempt to copy or otherwise obtain and use our products or technology. Monitoring unauthorized use of our intellectual property is difficult, and we cannot be certain that the steps we have taken will prevent unauthorized use of our technology, particularly in certain foreign countries where the local laws may not protect our proprietary rights as fully as in the U.S. or may provide, today or in the future, for compulsory licenses. If competitors are able to use our technology, our ability to compete effectively could be harmed. Moreover, others may independently develop and obtain patents for technologies that are similar to, or superior to, our technologies. If that happens, we may need to license these technologies, and we may not be able to obtain licenses on reasonable terms, if at all, which could cause harm to our business.

We rely in part on trade secrets to protect our technology, and our failure to obtain or maintain trade secret protection could adversely affect our competitive business position.

We rely on trade secrets to protect some of our technology, particularly where we do not believe patent protection is appropriate or obtainable. However, trade secrets are difficult to maintain and protect. Our strategy for scale-up of production would require us to share confidential information with our Brazilian business partners and other parties. While we use reasonable efforts to protect our trade secrets, our or our business partners employees, consultants, contractors or scientific and other advisors may unintentionally or willfully disclose our proprietary information to competitors. Enforcement of claims that a third party has illegally obtained and is using trade secrets is expensive, time consuming and uncertain. In addition, foreign courts are sometimes less willing than U.S. courts to protect trade secrets. If our competitors independently develop equivalent knowledge, methods and know-how, we would not be able to assert our trade secrets against them. We require new employees and consultants to execute confidentiality agreements upon the commencement of an employment or consulting arrangement with us. These agreements generally require that all confidential information developed by the individual or made known to the individual by us during the course of the individual s relationship with us be kept confidential and not disclosed to third parties. These agreements also generally provide that inventions conceived by the individual in the course of rendering services to us shall be our exclusive property. Nevertheless, our proprietary information may be disclosed, or these agreements may be unenforceable or difficult to enforce. Additionally, trade secret law in Brazil differs from that in the U.S. which requires us to take a different approach to protecting our trade secrets in Brazil. We may employ approaches to trade secret protection that are novel and untested under Brazilian law and we cannot guarantee that we would prevail if our trade secrets are contested in Brazil. If any of the above risks materializes our failure to obtain or maintain trade secret protection could adversely affect our competitive business position.

Third parties may misappropriate our yeast strains.

Third parties, including sugar and ethanol mill owners, contract manufacturers, other contractors and shipping agents, often have custody or control of our yeast strains. If our yeast strains were stolen, misappropriated or reverse engineered, they could be used by other parties who may be able to reproduce the

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yeast strains for their own commercial gain. If this were to occur, it would be difficult for us to challenge and prevent this type of use, especially in countries with limited intellectual property protection.

If we are sued for infringing intellectual property rights or other proprietary rights of third parties, litigation could be costly and time consuming and could prevent us from developing or commercializing our future products.

Our commercial success depends on our ability to operate without infringing the patents and proprietary rights of other parties and without breaching any agreements we have entered into with regard to our technologies and product candidates. We cannot determine with certainty whether patents or patent applications of other parties may materially affect our ability to conduct our business. Our industry spans several sectors, including biotechnology, renewable fuels, renewable specialty chemicals and other renewable compounds, and is characterized by the existence of a significant number of patents and disputes regarding patent and other intellectual property rights. Because patent applications can take several years to issue, there may currently be pending applications, unknown to us, that may result in issued patents that cover our technologies or product candidates. We are aware of a significant number of patents and patent applications relating to aspects of our technologies filed by, and issued to, third parties. The existence of third-party patent applications and patents could significantly reduce the coverage of patents owned by or licensed to us and limit our ability to obtain meaningful patent protection. If we wish to make, use, sell, offer to sell, or import the technology or compound claimed in issued and unexpired patents owned by others, we will need to obtain a license from the owner, enter into litigation to challenge the validity of the patents or incur the risk of litigation in the event that the owner asserts that we infringe its patents. If patents containing competitive or conflicting claims are issued to third parties and these claims are ultimately determined to be valid, we may be enjoined from pursing research, development, or commercialization of products, or be required to obtain licenses to these patents, or to develop or obtain alternative technology.

If a third-party asserts that we infringe upon its patents or other proprietary rights, we could face a number of issues that could seriously harm our competitive position, including:

infringement and other intellectual property claims, which could be costly and time consuming to litigate, whether or not the claims have merit, and which could delay getting our products to market and divert management attention from our business;

substantial damages for past infringement, which we may have to pay if a court determines that our product candidates or technologies infringe a competitor s patent or other proprietary rights;

a court prohibiting us from selling or licensing our technologies or future products unless the holder licenses the patent or other proprietary rights to us, which it is not required to do; and

if a license is available from a third party, we may have to pay substantial royalties or grant cross licenses to our patents or proprietary rights.

The industries in which we operate, and the biotechnology industry in particular, are characterized by frequent and extensive litigation regarding patents and other intellectual property rights. Many biotechnology companies have employed intellectual property litigation as a way to gain a competitive advantage. If any of our competitors have filed patent applications or obtained patents that claim inventions also claimed by us, we may have to participate in interference proceedings declared by the relevant patent regulatory agency to determine priority of invention and, thus, the right to the patents for these inventions in the U.S. These proceedings could result in substantial cost to us even if the outcome is favorable. Even if successful, an interference may result in loss of certain claims. Our involvement in litigation, interferences, opposition proceedings or other intellectual property proceedings inside and outside of the U.S., to defend our intellectual property rights or as a result of alleged infringement of the rights of others, may divert management time from focusing on business operations and could cause us to spend significant resources, all of which could harm our business and results of operations.

Many of our employees were previously employed at universities, biotechnology, specialty chemical or oil companies, including our competitors or potential competitors. We may be subject to claims that these employees or we have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of their former employers. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel and be enjoined from certain activities. A loss of key research personnel or their work product could hamper or prevent our ability to commercialize our product candidates, which could severely harm our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and demand on management resources.

We may need to commence litigation to enforce our intellectual property rights, which would divert resources and management s time and attention and the results of which would be uncertain.

Enforcement of claims that a third party is using our proprietary rights without permission is expensive, time consuming and uncertain. Litigation would result in substantial costs, even if the eventual outcome is favorable to us and would divert management s attention from our business objectives. In addition, an adverse outcome in litigation could result in a substantial loss of our proprietary rights and we may lose our ability to exclude others from practicing our technology or producing our product candidates.

The laws of some foreign countries do not protect intellectual property rights to the same extent as do the laws of the U.S. Many companies have encountered significant problems in protecting and defending intellectual property rights in certain foreign jurisdictions. The legal systems of certain countries, particularly certain developing countries, do not favor the enforcement of patents and other intellectual property protection, particularly those relating to biotechnology and/or bioindustrial technologies. This could make it difficult for us to stop the infringement of our patents or misappropriation of our other intellectual property rights. Proceedings to enforce our patent rights in foreign jurisdictions could result in substantial costs and divert our efforts and attention from other aspects of our business. Moreover, our efforts to protect our intellectual property rights in such countries may be inadequate.

Loss of key personnel, including key management personnel, and/or failure to attract and retain additional personnel could delay our product development programs and harm our research and development efforts and our ability to meet our business objectives.

Our business involves complex, global operations across a variety of markets and requires a management team and employee workforce that is knowledgeable in the many areas in which we operate. The loss of any key member of our management or key technical and operational employees, or the failure to attract or retain such employees could prevent us from developing and commercializing our products for our target markets and executing our business strategy. We may not be able to attract or retain qualified employees in the future due to the intense competition for qualified personnel among biotechnology and other technology-based businesses, particularly in the renewable fuels area, or due to the availability of personnel with the qualifications or experience necessary for our business. If we are not able to attract and retain the necessary personnel to accomplish our business objectives, we may experience staffing constraints that will adversely affect our ability to meet the demands of our collaborators and customers in a timely fashion or to support our internal research and development programs. In particular, our product and process development programs are dependent on our ability to attract and retain highly skilled technical and operational personnel. Competition for such personnel from numerous companies and academic and other research institutions may limit our ability to do so on acceptable terms. All of our employees are at-will employees, which means that either the employee or we may terminate their employment at any time.

As we expand our operations, we will need to hire additional qualified research and development and management personnel to succeed. The process of hiring, training and successfully integrating qualified personnel into our operation is a lengthy and expensive one. The market for qualified personnel is very

competitive because of the limited number of people available with the necessary technical skills and understanding of our technology and anticipated products. Our failure to hire and retain qualified personnel could impair our ability to meet our research and development and business objectives and adversely affect our results of operations and financial condition.

We may be sued for product liability.

The design, development, production and sale of our products involve an inherent risk of product liability claims and the associated adverse publicity. We may be named directly in product liability suits relating to our products, even for defects resulting from errors of our commercial partners, contract manufacturers or chemical finishers. These claims could be brought by various parties, including customers who are purchasing products directly from us or other users who purchase products from our customers. We could also be named as co-parties in product liability suits that are brought against the sugar and ethanol mills who produce our products in Brazil. Insurance coverage is expensive, may be difficult to obtain and may not be available in the future on acceptable terms. We cannot assure you that our contract manufacturers or the sugar and ethanol producers who produce our products will have adequate insurance coverage to cover against potential claims. This insurance may not provide adequate coverage against potential losses, and if claims or losses exceed our liability insurance coverage, we may go out of business. In addition, insurance coverage may become more expensive, which would harm our results of operations.

During the ordinary course of business, we may become subject to lawsuits or indemnity claims, which could materially and adversely affect our business and results of operations.

From time to time, we may in the ordinary course of business be named as a defendant in lawsuits, claims and other legal proceedings. These actions may seek, among other things, compensation for alleged personal injury, worker s compensation, employment discrimination, breach of contract, property damages, civil penalties and other losses of injunctive or declaratory relief. In the event that such actions or indemnities are ultimately resolved unfavorably at amounts exceeding our accrued liability, or at material amounts, the outcome could materially and adversely affect our reputation, business and results of operations. In addition, payments of significant amounts, even if reserved, could adversely affect our liquidity position.

Our ability to use our net operating loss carry forwards to offset future taxable income may be subject to certain limitations.

In general, under Section 382 of the Internal Revenue Code, a corporation that undergoes an ownership change is subject to limitations on its ability to utilize its pre-change net operating loss carry forwards, or NOLs, to offset future taxable income. If the Internal Revenue Service challenges our analysis that our existing NOLs are not subject to limitations arising from previous ownership changes, or if we undergo an ownership change in connection with or after this public offering, our ability to utilize NOLs could be limited by Section 382 of the Internal Revenue Code. Future changes in our stock ownership, some of which are outside of our control, could result in an ownership change under Section 382 of the Internal Revenue Code. Furthermore, our ability to utilize NOLs of companies that we may acquire in the future may be subject to limitations. For these reasons, we may not be able to utilize a material portion of the NOLs reflected on our balance sheet, even if we attain profitability.

Loss of our government grant funding could impair our research and development efforts.

We have been awarded a \$24.3 million Integrated Bio-Refinery grant from the U.S. Department of Energy (DOE). The terms of this grant require us to use the funds to leverage and expand our existing Emeryville, California, pilot plant and support laboratories to develop U.S.-based production capabilities for renewable fuels and chemicals derived from sweet sorghum. Under this grant, we would be required to fund an additional \$10.5 million in cost sharing expenses. Generally, government grant agreements have fixed terms and

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may be terminated, modified or recovered by the granting agency under certain conditions. If the DOE later terminates its grant agreement with us, our U.S.-based research and development activities could be impaired, which could harm our business.

Our headquarters and other facilities are located in an active earthquake zone, and an earthquake or other types of natural disasters affecting us or our suppliers could cause resource shortages and disrupt and harm our results of operations.

We conduct our primary research and development operations in the San Francisco Bay Area in an active earthquake zone, and certain of our suppliers conduct their operations in the same region or in other locations that are susceptible to natural disasters. In addition, California and some of the locations where certain of our suppliers are located have experienced shortages of water, electric power and natural gas from time to time. The occurrence of a natural disaster, such as an earthquake, drought or flood, or localized extended outages of critical utilities or transportation systems, or any critical resource shortages, affecting us or our suppliers could cause a significant interruption in our business, damage or destroy our facilities, production equipment or inventory or those of our suppliers and cause us to incur significant costs or result in limitations on the availability of our raw materials, any of which could harm our business, financial condition and results of operations. The insurance we maintain against fires, earthquakes and other natural disasters may not be adequate to cover our losses in any particular case.

Risks Related to this Offering and Ownership of Our Common Stock

An active trading market for our common stock may not develop, and you may not be able to resell your shares at or above the initial public offering price.

Prior to this offering, there has been no public market for shares of our common stock. Although we will apply to have our common stock approved for quotation on a stock exchange, an active trading market for our shares may never develop or be sustained following this offering. The initial public offering price of our common stock will be determined through negotiations between us and the underwriters. This initial public offering price may not be indicative of the market price of our common stock after the offering. In the absence of an active trading market for our common stock, investors may not be able to sell their common stock at or above the initial public offering price or at the time that they would like to sell.

Our stock price may be volatile, and the market price of our common stock after this offering may drop below the price you pay.

The market price of our common stock could be subject to significant fluctuations after this offering and it may decline below the initial public offering price. Market prices for securities of early stage companies have historically been particularly volatile. As a result of this volatility, you may not be able to sell your common stock at or above the initial public offering price. Such fluctuations could be in response to, among other things, the factors described in this Risk Factors section or elsewhere in this registration statement, or other factors, some of which are beyond our control, such as:

fluctuations in our financial results or outlook or those of companies perceived to be similar to us;

changes in estimates of our financial results or recommendations by securities analysts;

changes in market valuations of similar companies;

changes in the prices of commodities associated with our business such as sugar, ethanol and petroleum;

changes in our capital structure, such as future issuances of securities or the incurrence of debt;

announcements by us or our competitors of significant contracts, acquisitions or strategic alliances;

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regulatory developments in the U.S., Brazil, and/or other foreign countries;

litigation involving us, our general industry or both;

additions or departures of key personnel;

investors general perception of us; and

changes in general economic, industry and market conditions.

Furthermore, the stock markets have experienced price and volume fluctuations that have affected, and continue to affect, the market prices of equity securities of many companies. These fluctuations often have been unrelated or disproportionate to the operating performance of those companies. These broad market fluctuations, as well as general economic, political and market conditions, such as recessions, interest rate changes and international currency fluctuations, may negatively affect the market price of our common stock.

In the past, many companies that have experienced volatility in the market price of their stock have become subject to securities class action litigation. We may be the target of this type of litigation in the future. Securities litigation against us could result in substantial costs and divert our management s attention from other business concerns, which could seriously harm our business.

We will incur increased costs and demands upon management as a result of complying with the laws and regulations affecting public companies, which could harm our results of operations.

As a public company, we will incur significant additional accounting, legal and other expenses that we did not incur as a private company, including costs associated with public company reporting requirements. We also have incurred and will incur costs associated with corporate governance requirements, including requirements under Section 404 and other provisions of the Sarbanes-Oxley Act, as well as rules implemented by the Securities and Exchange Commission and the exchange on which we list our common stock. The expenses incurred by public companies for reporting and corporate governance purposes have increased dramatically in recent years. We expect these rules and regulations to substantially increase our financial and legal compliance costs. We also expect that as we become a public company it will be more difficult and more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced policy limits and coverage or incur substantially higher costs to obtain the same or similar coverage previously available. As a result, it may be more difficult for us to attract and retain qualified individuals to serve on our board of directors or as our executive officers.

The concentration of our capital stock ownership with insiders upon the completion of this offering will limit your ability to influence corporate matters.

We anticipate that our executive officers, directors, current five percent or greater stockholders and entities affiliated with them will together beneficially own approximately % of our common stock outstanding after this offering. This significant concentration of share ownership may adversely affect the trading price for our common stock because investors often perceive disadvantages in owning stock in companies with controlling stockholders. Also, these stockholders, acting together, will be able to control our management and affairs and matters requiring stockholder approval, including the election of directors and the approval of significant corporate transactions, such as mergers, consolidations

or the sale of substantially all of our assets. Consequently, this concentration of ownership may have the effect of delaying or preventing a change of control, including a merger, consolidation or other business combination involving us, or discouraging a potential acquirer from making a tender offer or otherwise attempting to obtain control, even if that change of control would benefit our other stockholders.

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A significant portion of our total outstanding shares may be sold into the public market in the near future, which could cause the market price of our common stock to drop significantly, even if our business is doing well.

Sales of a substantial number of shares of our common stock in the public market could occur at any time after the expiration of the lock-up agreements described in the Underwriters and Shares Eligible for Future Sale Lock-Up Agreements sections of this prospectus. These sales, or the market perception that the holders of a large number of shares intend to sell shares, could reduce the market price of our common stock. After this offering, we will have shares of common stock outstanding based on the number of shares outstanding as of December 31, 2009, and assuming the conversion of shares of Amyris Brasil held by investors into shares of our common stock and no exercise of outstanding options or warrants after December 31, 2009. This includes the shares that we are selling in this offering, which may be resold in the public market immediately. The remaining 24,215,560 shares, or % of our outstanding shares after this offering, are currently restricted as a result of securities laws or lock-up agreements but will be able to be sold, subject to any applicable volume limitations under federal securities laws, in the near future as set forth below:

shares will be eligible for sale immediately upon completion of this offering; and

shares will be eligible for sale upon the expiration of lock-up agreements, subject in some cases to volume and other restrictions of Rule 144 and Rule 701 under the Securities Act of 1933, as amended, or the Securities Act.

The lock-up agreements expire 180 days after the date of this prospectus, except that the 180-day period may be extended in certain cases for up to 34 additional days under certain circumstances where we announce or pre-announce earnings or a material event occurs within approximately 17 days prior to, or approximately 16 days after, the termination of the 180-day period. The representatives of the underwriters may, in their sole discretion and at any time without notice, release all or any portion of the securities subject to lock-up agreements.

Following this offering, holders of of the shares of our common stock not sold in this offering and holders of warrants to purchase an aggregate of shares of common stock not sold in this offering will be entitled to rights with respect to the registration of these shares under the Securities Act. See Description of Capital Stock Registration Rights. If we register their shares of common stock following the expiration of the lock-up agreements, these stockholders could sell those shares in the public market without being subject to the volume and other restrictions of Rule 144 and Rule 701.

After the closing of this offering, we intend to register approximately shares of common stock that have been reserved for future issuance under our stock incentive plans. Of these shares, shares will be eligible for sale upon the exercise of outstanding options that will be vested after the expiration of the lock-up agreements.

Purchasers in this offering will experience immediate and substantial dilution in the book value of their investment.

The assumed initial public offering price of our common stock is substantially higher than the net tangible book value per share of our outstanding common stock immediately after this offering. Therefore, if you purchase our common stock in this offering, you will incur immediate dilution of approximately \$\\$ in net tangible book value per share from the price you paid. In addition, investors purchasing common stock in this offering will own only approximately \$\%\$ of our shares outstanding after the offering even though they will have contributed \$\%\$ of the total consideration received by us in connection with our sales of common stock. Moreover, we issued options and warrants in the past to acquire our stock at prices significantly below the assumed initial public offering price. As of December 31, 2009, 4,446,894 shares of common stock were issuable upon exercise of outstanding stock options with a weighted average exercise price of \$2.87 per

share. As of December 31, 2009, warrants to purchase 144,158 shares of common stock (assuming conversion of all shares of

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preferred stock into common stock as of December 31, 2009) were issuable upon exercise of outstanding warrants with a weighted average exercise price of \$21.20 per share. To the extent that these outstanding options and warrants are ultimately exercised, you will incur further dilution. For a further description of the dilution that you will experience immediately after this offering, see the Dilution section of this prospectus.

If securities or industry analysts do not publish or cease publishing research or reports about us, our business or our market, or if they change their recommendations regarding our stock adversely, our stock price and trading volume could decline.

The trading market for our common stock will be influenced by the research and reports that industry or securities analysts may publish about us, our business, our market or our competitors. If any of the analysts who may cover us change their recommendation regarding our stock adversely, or provide more favorable relative recommendations about our competitors, our stock price would likely decline. If any analyst who may cover us were to cease coverage of our company or fail to regularly publish reports on us, we could lose visibility in the financial markets, which in turn could cause our stock price or trading volume to decline.

Our management will have broad discretion over the use of the proceeds we receive in this offering and might not apply the proceeds in ways that increase the value of your investment.

Our management will have broad discretion in the application of the net proceeds from this offering, and you will be relying on the judgment of our management regarding the application of these proceeds. Our management might not apply our net proceeds of this offering in ways that increase the value of your investment. We expect to use the net proceeds to us from this offering for working capital, and other general corporate purposes, which may in the future include expansion of production facilities, investments in, or acquisitions of, complementary businesses, joint ventures, partnerships, services or technologies. Our management might not be able to yield a significant return, if any, on any investment of these net proceeds. You will not have the opportunity to influence our decisions on how to use our net proceeds from this offering.

After the completion of this offering, we do not expect to declare any dividends in the foreseeable future.

After the completion of this offering, we do not anticipate declaring any cash dividends to holders of our common stock in the foreseeable future. In addition, our equipment lease with TriplePoint Capital LLC and our letter of credit facility currently restrict our ability to pay dividends. Consequently, investors may need to rely on sales of their common stock after price appreciation, which may never occur, as the only way to realize any future gains on their investment. Investors seeking cash dividends should not purchase our common stock.

Anti-takeover provisions contained in our certificate of incorporation and bylaws, as well as provisions of Delaware law, could impair a takeover attempt.

Our amended and restated certificate of incorporation and our amended and restated bylaws to be effective upon the completion of this offering will contain provisions that could delay or prevent a change in control of our company. These provisions could also make it more difficult for stockholders to elect directors and take other corporate actions. These provisions include:

staggered board of directors;

authorizing the board to issue, without stockholder approval, preferred stock with rights senior to those of our common stock;

authorizing the board to amend our bylaws and to fill board vacancies until the next annual meeting of the stockholders;

prohibiting stockholder action by written consent;

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limiting the liability of, and providing indemnification to, our directors and officers;

not authorizing our stockholders to call a special stockholder meeting;

eliminating the ability of our stockholders to call special meetings; and

requiring advance notification of stockholder nominations and proposals.

As a Delaware corporation, we are subject to Section 203 of the Delaware General Corporation Law, which, subject to some exceptions, prohibits business combinations between a Delaware corporation and an interested stockholder, which is generally defined as a stockholder who becomes a beneficial owner of 15% or more of a Delaware corporation s voting stock, for a three-year period following the date that the stockholder became an interested stockholder.

These and other provisions in our amended and restated certificate of incorporation and our amended and restated bylaws to be effective upon the completion of this offering and under Delaware law could discourage potential takeover attempts, reduce the price that investors might be willing to pay in the future for shares of our common stock and result in the market price of our common stock being lower than it would be without these provisions. See Description of Capital Stock Preferred Stock and Description of Capital Stock Antitakeover Provisions.

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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements. All statements, other than statements of historical facts contained in this prospectus, including statements regarding our future results of operations and financial position, business strategy and plans and objectives of management for future operations, are forward-looking statements. In many cases, you can identify forward-looking statements by terms such as may, will, should, expect, plan, anticipate, could, intend, target, project, contemplate, believe, estimate, predict, potential,

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These forward-looking statements are only predictions. These statements relate to future events or our future financial performance and involve known and unknown risks, uncertainties and other important factors that may cause our actual results, levels of activity, performance or achievements to materially differ from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. We have described in the Risk Factors section and elsewhere in this prospectus the principal risks and uncertainties that we believe could cause actual results to differ from these forward-looking statements. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified, you should not rely on these forward-looking statements as guarantees of future events.

In particular, forward looking statements in this prospectus include statements about: achievement of advances in our technology platform, including yield; target molecules we intend to produce from our synthetic biology platform; the expected applications of our molecules and addressable markets; the expected cost-competitiveness and relative performance attributes of our products; timing of commercial sales of our products; the acceptance and success of our capital light model for production of our products at sugar and ethanol mills; the timing and capacity of manufacturing available to us, including from contract manufacturing partners, our joint venture with Usina São Martinho and sugar and ethanol mill owners; government regulatory and industry certification approval and acceptance of our products and genetically modified microorganisms; the availability of suitable and cost-competitive feedstock;

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the commercial scale-up of our production;

our access to distribution infrastructure and services and chemical processing;
government policymaking and incentives relating to renewable fuels;
the future price and volatility of petroleum; and
our ability to manage operations in Brazil.

The forward-looking statements in this prospectus represent our views as of the date of this prospectus. We anticipate that subsequent events and developments will cause our views to change. However, while we may elect to update these forward-looking statements at some point in the future or to conform these statements to actual results or revised expectations, we have no current intention of doing so except to the extent required by applicable law. You should, therefore, not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this prospectus.

This prospectus also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other industry data. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. We have not independently verified the statistical and other industry data generated by independent parties and contained in this prospectus and, accordingly, we cannot guarantee their accuracy or completeness. The industry in which we operate is subject to a high degree of uncertainty and risk due to a variety of factors, including those described in Risk Factors.

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USE OF PROCEEDS

We estimate that our net proceeds from the sale of the common stock that we are offering will be approximately \$\) million, assuming an initial public offering price of \$\) per share, which is the midpoint of the price range listed on the cover page of this prospectus, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. A \$1.00 increase (decrease) in the assumed initial public offering price of \$\) per share would increase (decrease) our net proceeds from this offering by approximately \$\) million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. If the underwriters exercise their option to purchase additional shares in full, we estimate that our net proceeds will be approximately \$\) million after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

We expect to use the net proceeds from this offering for capital expenditures related to the establishment of production facilities, including capital expenditures related to the establishment of our joint venture production facility, working capital and general corporate purposes, including building engineering services capabilities to support sugar and ethanol mill adoption of our technology and growing our chemistry capabilities to accelerate customer use of our chemical products. See Management s Discussion and Analysis of Financial Condition and Results of Operations Liquidity and Capital Resources for additional information about our anticipated use of cash resources. We may also use a portion of the net proceeds to expand our business through acquisitions of other companies, assets or technologies. However, at this time, we do not have any commitment to any specific acquisitions.

Some of the other principal purposes of this offering are to create a public market for our common stock, increase our visibility in the marketplace and provide liquidity to existing stockholders. A public market for our common stock will facilitate future access to public equity markets and enhance our ability to sell our common stock as a means of attracting and retaining key employees and as consideration for acquisitions.

We will have broad discretion in the way that we use the net proceeds of this offering. The amounts that we actually spend for the purposes described above may vary significantly and will depend, in part, on the timing and amount of our future revenues, our future expenses and any potential acquisitions that we may propose. Pending the uses of the net proceeds of this offering, as described above, we intend to invest the net proceeds in investment-grade, interest-bearing securities. See Risk Factors-Risks Related to This Offering and Ownership of our Common Stock Our management will have broad discretion over the use of the proceeds we receive in this offering and might not apply the proceeds in ways that increase the value of your investment.

DIVIDEND POLICY

We have never declared or paid cash dividends on our capital stock. We currently intend to retain any future earnings and do not expect to declare or pay any dividends in the foreseeable future. Any further determination to pay dividends on our capital stock will be at the discretion of our Board of Directors and will depend on our financial condition, results of operations, capital requirements and other factors that our Board of Directors considers relevant. In addition, our equipment lease with TriplePoint Capital LLC and our letter of credit facility currently restrict our ability to pay dividends.

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CAPITALIZATION

The following table sets forth our cash and cash equivalents and capitalization as of December 31, 2009:

on an actual basis;

on a pro forma basis to reflect:

the conversion of all of our outstanding shares of convertible preferred stock into 18,790,244 shares of common stock upon the completion of this offering;

the conversion of 1,111,111 shares of Amyris Brasil held by third party investors in this subsidiary into 311,111 shares of our common stock at the completion of this offering;

the reclassification of the preferred stock warrant liability to common stock immediately prior to the completion of this offering; and

the reclassification of redeemable noncontrolling interest to common stock immediately prior to the completion of this offering;

on a pro forma basis as adjusted to reflect the pro forma adjustments described above and the sale by us of shares of our common stock that we are offering at an assumed initial public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

Our capitalization following the closing of this offering will be adjusted based upon the actual initial public offering price and other terms of the offering determined at pricing. You should read the following table together with our Consolidated Financial Statements and Management s Discussion and Analysis of Financial Condition and Results of Operations appearing elsewhere in this prospectus.

	As of December 31, 2009				
		Actual (in t	housand	o Forma ls, except sha share data)	Pro Forma as Adjusted are and
Cash, cash equivalents, short term investments and restricted cash	\$	71,716	\$	71,716	\$
Total indebtedness ⁽¹⁾	\$	20,608	\$	20,608	\$
Convertible preferred stock warrant liability	\$	2,740	\$		\$
Convertible preferred stock no par value: 21,080,641 shares authorized, 18,365,222 shares issued and outstanding, actual; shares authorized, issued and outstanding pro forma and pro forma as adjusted		179,651			

Redeemable noncontrolling interest	5,506		
Stockholders Equity (Deficit):			
Common stock no par value: 33,000,000 shares authorized, 5,114,205 shares issued and			
outstanding actual; 33,000,000 authorized, 24,215,560 shares issued and outstanding			
pro forma; authorized, shares issued and outstanding pro forma as			
adjusted	858	188,755	
Additional paid-in capital	4,509	4,509	
Accumulated other comprehensive income	1,336	1,336	
Accumulated deficit	(120,448)	(120,448)	
Total equity (deficit)	(113,745)	74,152	
Total capitalization	\$ 94,760	\$ 94,760	\$

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(1) Total indebtedness includes an \$8.3 million credit facility associated with our student loan auction rate securities holdings, \$7.2 million in capital lease obligations, a \$4.0 million note payable and a \$1.0 million loan payable (See Note 5 and Note 6 to our Consolidated Financial Statements).

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) each of cash and cash equivalents, working capital, total assets and total stockholders deficit by \$ million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each increase of 1.0 million shares in the number of shares of common stock offered by us would increase each of cash and cash equivalents, working capital, total assets and total stockholders equity (deficit) by approximately \$ million. Similarly, each decrease of 1.0 million shares in the number of shares offered by us would decrease each of cash and cash equivalents, working capital, total assets and total stockholders equity by approximately \$ million. The pro forma as adjusted information discussed above is illustrative only and will be adjusted based on the actual public offering price and other terms of this offering.

If the underwriters option to purchase additional shares were exercised in full, pro forma as adjusted cash, cash equivalents, common stock and additional paid-in capital, stockholders equity (deficit) and shares issued and outstanding as of December 31, 2009, would be \$ million, \$ million and \$ million.

The table above does not include:

4,446,894 shares of common stock issuable upon the exercise of stock options outstanding as of December 31, 2009, at a weighted average exercise price of \$2.87 per share;

144,158 shares of common stock issuable upon the exercise of outstanding warrants as of December 31, 2009, that will remain outstanding after the completion of this offering through various dates from one year from the effective date of this offering to March 2016, with a weighted average price of \$21.20 per share;

50,000 shares of common stock subject to restricted stock units outstanding as of December 31, 2009;

shares of common stock reserved for future issuance under our 2010 Equity Incentive Plan, which will become effective upon the completion of this offering and will contain provisions that will automatically increase its share reserve each year, as more fully described in Management Employee Benefit Plans; and

shares of common stock reserved for future issuance under our 2010 Employee Stock Purchase Plan, which will become effective upon the completion of this offering and will contain provisions that will automatically increase its share reserve each year, as more fully described in Management Employee Benefit Plans.

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DILUTION

If you invest in our common stock in this offering, your ownership interest will be immediately diluted to the extent of the difference between the initial public offering price per share and the net tangible book value per share of our common stock after this offering. As of December 31, 2009, our net tangible book value was \$ million, or \$ per share of common stock, and our pro forma net tangible book value was \$ million, or \$ per share of our common stock. Pro forma net tangible book value per share represents the amount of our total tangible assets less our total liabilities, divided by the total number of shares of our common stock outstanding, after giving effect to the conversion at the completion of this offering of shares of Amyris Brasil held by investors in that subsidiary, the automatic conversion of all of our outstanding convertible preferred stock into shares of common stock upon the completion of this offering and the reclassification of preferred stock warrant liability to common stock immediately prior to the completion of this offering.

After giving effect to the sale by us of shares of our common stock in this offering at an assumed initial public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma net tangible book value as of December 31, 2009, would have been approximately \$ million, or \$ per share of our common stock. This amount represents an immediate increase in our pro forma net tangible book value of \$ per share to our existing stockholders and an immediate dilution in our pro forma net tangible book value of \$ per share to new investors purchasing shares of our common stock in this offering at the initial public offering price.

The following table illustrates this dilution on a per share basis:

Assumed initial public offering price per share	\$
Pro forma net tangible book value per share as of December 31, 2009, before giving effect to this offering	\$
Increase in pro forma net tangible book value per share attributable to new investors	\$
Pro forma as adjusted net tangible book value per share after this offering	\$
Dilution per share to investors in this offering	\$

A \$1.00 increase (decrease) in the initial public offering price of \$ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, would increase (decrease) our pro forma net tangible book value per share after this offering by approximately \$ and would increase (decrease) dilution per share to new investors by approximately \$, assuming that the number of shares offered by us, as listed on the cover page of this prospectus, remains the same. In addition, to the extent any outstanding options or warrants are exercised, new investors will experience further dilution.

If the underwriters exercise their over-allotment option in full, the pro forma as adjusted net tangible book value will increase to \$ per share, representing an immediate increase to existing stockholders of \$ per share and an immediate dilution of \$ per share to new investors.

The following table summarizes, as of December 31, 2009, the number of shares purchased or to be purchased from us, the total consideration paid or to be paid to us, and the average price per share paid or to be paid to us by existing stockholders and new investors purchasing shares of our common stock in this offering at an assumed initial public offering price of \$ per share before deducting estimated underwriting

discounts and commissions and estimated offering expenses payable by us. As the table below shows, new investors purchasing shares of our common stock in this offering will pay an average price per share substantially higher than our existing stockholders paid.

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	Shares Po	ırchased	Total Cons	sideration	Average Price Per
	Number	Percent (In thousand	Amount ls other than pe per share data	-	Share
Existing stockholders		%	\$	%	\$
New investors					
Total		100%	\$	100%	

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share would increase (decrease) the total consideration paid to us by new investors by \$ million and increase (decrease) the percent of total consideration paid to us by new investors by % assuming that the number of shares offered by us, as listed on the cover page of this prospectus, remains the same.

The number of shares purchased from us by existing stockholders is based on our common stock outstanding as of December 31, 2009, after giving effect to the conversion of all of our outstanding convertible preferred stock into common stock and the conversion of shares of Amyris Brasil held by third party investors in this subsidiary into shares of our common stock upon the completion of this offering. This number excludes:

4,446,894 shares of common stock issuable upon the exercise of stock options outstanding as of December 31, 2009, at a weighted average exercise price of \$2.87 per share;

144,158 shares of common stock issuable upon the exercise of outstanding warrants as of December 31, 2009, that will remain outstanding after the completion of this offering through various dates from one year from the effective date of this offering to March 2016, with a weighted average price of \$21.20 per share;

50,000 shares of common stock subject to restricted stock units outstanding as of December 31, 2009;

shares of common stock reserved for future issuance under our 2010 Equity Incentive Plan, which will become effective upon the completion of this offering and will contain provisions that will automatically increase its share reserve each year, as more fully described in Management Employee Benefit Plans; and

shares of common stock reserved for future issuance under our 2010 Employee Stock Purchase Plan, which will become effective upon the completion of this offering and will contain provisions that will automatically increase its share reserve each year, as more fully described in Management Employee Benefit Plans.

If all our outstanding stock options and outstanding warrants had been exercised as of December 31, 2009, our pro forma net tangible book value as of December 31, 2009, would have been approximately \$\frac{1}{2}\$ million or \$\frac{1}{2}\$ per share of our common stock, and the pro forma net tangible book value after giving effect to this offering would have been \$\frac{1}{2}\$ per share, representing dilution in our pro forma net tangible book value per share to new investors of \$\frac{1}{2}\$.

SELECTED CONSOLIDATED FINANCIAL DATA

The selected consolidated statement of operations data for the years ended December 31, 2007, 2008 and 2009 and the selected consolidated balance sheet data as of December 31, 2008 and 2009 are derived from our audited Consolidated Financial Statements, appearing elsewhere in this prospectus. The selected consolidated statement of operations data for 2005 and 2006 and the selected consolidated balance sheet data as of December 31, 2005, 2006 and 2007 have been derived from our audited consolidated financial statements, which are not included in this prospectus. The historical results presented below are not necessarily indicative of financial results to be achieved in future periods. You should read the following selected consolidated financial data in conjunction with Management's Discussion Analysis of Financial Condition and Results of Operations and our Consolidated Financial Statements appearing elsewhere in this prospectus.

	Years Ended December 31,									
		2005		2006		2007		2008		2009
			(in	thousands, e	xcept	share and pe	r shar	re amounts)		
Consolidated Statement of Operations Data:										
Revenues										
Product sales	\$		\$		\$		\$	10,680	\$	61,689
Collaborative research services		2,235		3,804		6,046		3,008		2,919
Government grants		255		198		138		204		
Total revenues		2,490		4,002		6,184		13,892		64,608
Cost and operating expenses										
Cost of product sales								10,364		60,428
Research and development ⁽¹⁾		1,866		3.633		8,662		30,306		38,263
Sales, general and administrative ⁽¹⁾		610		2,787		10,522		16,622		23,558
Restructuring and asset impairment charges		010		2,		10,022		10,022		5,768
restructuring and asset impairment charges										3,700
Total cost and operating expenses		2,476		6,420		19,184		57,292		128,017
Income (loss) from operations		14		(2,418)		(13,000)		(43,400)		(63,409)
Other income (expense)		50		212		1 170		1 270		449
Interest income		30		213		1,178		1,378		448
Interest expense				26		(28)		(377)		(1,218)
Other income (expense), net				36		76		(144)		(621)
Total other income (expense)		50		249		1,226		857		(1,391)
Income (loss) before income taxes		64		(2,169)		(11,774)		(42,543)		(64,800)
Provision for (benefit from) income taxes		556		(354)				(207)		
,				, ,						
Net loss		(492)		(1,815)		(11,774)		(42,336)		(64,800)
Loss attributable to noncontrolling interest		(-)		())		,,,,,		(472)		(341)
6								(')		(-)
Net loss attributable to Amyris Biotechnologies, Inc.										
stockholders	\$	(492)	\$	(1,815)	\$	(11,774)	\$	(41,864)	\$	(64,459)
SIOCKHOIGCIS	Ψ	(4)2)	Ψ	(1,013)	Ψ	(11,//4)	Ψ	(41,004)	Ψ	(04,437)
N-4 l										
Net loss per share of common stock attributable to										
Amyris Biotechnologies, Inc. stockholders, basic and	Ф	(0.05)	Ф	(0, (0)	Ф	(2.20)	Φ	(0.01)	Ф	(12.56)
diluted ⁽²⁾	\$	(0.25)	\$	(0.60)	\$	(3.28)	\$	(9.91)	\$	(13.56)
Weighted-average shares of common stock outstanding	1,	954,900	3	,049,761	3	3,592,932	4	1,223,533		4,753,085
used in computing net loss per share of common stock,										

basic and diluted(2)

Pro forma net loss per share of common stock attributable to Amyris Biotechnologies, Inc. stockholders, basic and diluted (unaudited)⁽²⁾

\$ (3.16)

Weighted-average shares of common stock outstanding used in computing pro forma net loss per share of common stock, basic and diluted (unaudited)⁽²⁾

20,279,433

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	2005	2006	As of December 2007 (in thousands	2008	2009
Consolidated Balance Sheet Data:			(111 1110 11011111111	,	
Cash, cash equivalents, investments and					
restricted cash	\$ 3,767	\$ 6,706	\$ 45,862	\$ 52,888	\$ 71,716
Working capital (deficit)	(1,222)	2,287	31,045	32,356	51,062
Total assets	4,678	8,580	50,889	98,823	122,159
Total indebtedness ⁽³⁾			655	6,747	20,608
Convertible preferred stock warrant liability				2,132	2,740
Convertible preferred stock		6,397	58,126	121,436	179,651
Redeemable noncontrolling interest					5,506
Total deficit	\$ (521)	\$ (2,301)	\$ (13,301)	\$ (52,143)	\$ (113,745)

- (1) Includes stock-based compensation expense.
- (2) See Note 2 to our Consolidated Financial Statements for an explanation of the method used to calculate basic and diluted net loss per share of common stock, the pro forma basic and diluted net loss per share of common stock and the weighted-average number of shares used in computation of the per share amounts.
- (3) Total indebtedness includes an \$8.3 million credit facility associated with our student loan auction rate securities holdings, \$7.2 million in capital lease obligations, a \$4.0 million note payable and a \$1.0 million loan payable (See Note 5 and Note 6 to our Consolidated Financial Statements).

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MANAGEMENT S DISCUSSION AND ANALYSIS

OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis of our financial condition and results of operations should be read together with our consolidated financial statements and the other financial information appearing elsewhere in this prospectus. This discussion contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those anticipated in the forward-looking statements as a result of various factors, including those discussed below and those discussed in the section entitled Risk Factors included elsewhere in this prospectus.

Overview

We are building an integrated renewable products company by applying our industrial synthetic biology platform to provide alternatives to select petroleum-sourced products used in specialty chemical and transportation fuel markets worldwide. We genetically modify microorganisms, primarily yeast, and use them as living factories in established fermentation processes to convert plant-sourced sugars into potentially thousands of molecules. Our first commercialization efforts have been focused on a molecule called farnesene, which forms the basis for a wide range of products varying from specialty chemical applications such as detergents, cosmetics, perfumes and industrial lubricants, to transportation fuels such as diesel. We have focused our research and development, business development and production operations on the use of Brazilian sugarcane as our primary feedstock for the foreseeable future, because it is abundant, low cost and relatively price stable. We intend to secure access to this feedstock and expand our production capacity in a capital light manner. Under this approach, we expect to work with Brazilian sugar and ethanol producers to build a new, bolt-on facility adjacent to their existing mills instead of building new greenfield facilities, thereby reducing the capital required to establish and scale our production. Our first such arrangement is our joint venture with Usina São Martinho, one of the largest sugar and ethanol producers in Brazil.

We commenced research activities in January 2005 to build our platform, focusing on development of microbial strains to provide an alternative, lower cost source of artemisinic acid, a precursor of artemisinin, an anti-malarial therapeutic. This work was funded by a five-year grant awarded by the Bill & Melinda Gates Foundation to the Institute for OneWorld Health to support a research collaboration with Amyris and the University of California, Berkeley. In 2008, we entered into an agreement to license our artemisinic acid-producing yeast strains to sanofi-aventis on a royalty free basis for the purpose of manufacturing and commercializing artemisinin-based drugs for the treatment of malaria.

As we embark on new research programs, we first identify the molecule that we want to produce based on its market opportunity, and then engineer yeast strains capable of producing the target molecule. Thereafter, we focus on improving the yeast strains so they can produce the desired end product at commercially viable levels. We gauge our production efficiency by measuring a number of production metrics, of which yield is the primary metric. Yield quantifies the amount of target molecule produced from a given amount of sugar. To improve yield, our strain development and screening technology utilizes proprietary high-throughput processes to create and test as many as 1,000 yeast strains a day in order to select those yeast strains which are most efficient.

In 2006, leveraging our research on artemisinin, we launched formal research programs to produce farnesene, a molecule which can be used as a renewable chemical ingredient for consumer and industrial products and as a fuel. We believe that we will be able to enter certain specialty chemical markets with farnesene if we can attain at commercial production scale the 15% yield that we have achieved at two liter scale. We will continue to seek to improve our yield of farnesene and other molecules in order to enter additional markets profitably and improve our production economics.

One of our priorities is to evolve our production processes to transition from laboratory to commercial scale. To do this, we expect to initiate commercial production through the use of contract manufacturing as we complete our joint venture facility with Usina São Martinho which will be located in Brazil. While our yeast

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strains can use a wide variety of feedstocks, we are focusing on the use of sugarcane as our predominant feedstock and seeking to leverage Brazil s existing ethanol infrastructure. In 2008, we established a base of operations in Brazil to move our strains from the laboratory toward commercial production and to oversee Brazilian commercialization of our products. Key milestones to date include:

In March 2008, we established our subsidiary Amyris Brasil S.A. in Campinas, Brazil, and opened laboratories at this site in August 2008.

In November 2008, we began operation of our first 300 liter scale pilot plant, in Emeryville, California. This facility enables us to test our strains at a significantly larger volume than the two liter scale we use in our laboratories, which is the first step in our scale-up process.

In June 2009, we began operation of our second 300 liter scale pilot plant in Campinas, Brazil. This pilot plant is a replica of our plant in Emeryville, which enables us to control transfer of our strains and processes to Brazil, where we can test them with commercial production feedstock.

In June 2009, through the use of a contract manufacturer, we completed our first initial production runs in 60,000 liter scale fermentors to evaluate results at a larger scale and to produce renewable diesel fuel to support our certification efforts.

In September 2009, we began operation of our 5,000 liter scale demonstration facility in Campinas, Brazil. We refine large scale equipment design and processes at this scale, the final step before transitioning to a full commercial facility.

In January 2010, we ordered four 600,000 liter commercial plant fermentors for the purpose of commercial production in the second quarter of 2012 in our Usina São Martinho joint venture facility.

In February 2010, we received approval from the Brazilian government to use one of our current yeast strains in broad commercial production and we will seek to amend this approval from time to time as we develop new strains.

In April 2010, we signed a definitive agreement with Usina São Martinho to establish a joint venture for our first production facility in Brazil.

We expect to commercialize our products through the use of contract manufacturing in 2011. Starting in the second quarter of 2012, we intend to transition this production to our joint venture with Usina São Martinho. We have also provided Usina São Martinho with an option to produce our products at a second production facility, and we have non-binding letters of intent in place with three leading Brazilian sugar and ethanol producers, Bunge Limited, Cosan and Açúcar Guarani, a subsidiary of Tereos, to establish production at certain of their existing mills.

We intend to work with Brazilian sugar and ethanol producers to increase our production on a capital light basis as follows:

We would provide mill owners with design and engineering services to build the facility and with access to our yeast strains and processes;

The mill owners would make a substantial contribution of capital to enable construction of our bolt-on facility or make other substantial operating contributions;

We would enter into agreements to purchase the products produced and retain exclusive distribution and sales rights; and

We plan to compensate the mill owner for the feedstock consumed in the production of our products in an amount equal to the revenue they would have realized had they instead produced their traditional products, plus any incremental costs incurred in the production of our products over their usual production costs. Further, as we sell our products, we expect to share a portion of the higher gross margin we expect to realize from the sale of our renewable products with these mill owners.

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We believe that our capital light approach should enable us to increase production capacity without needing to invest the amount of upfront capital that would be required for the construction of new greenfield facilities.

To build the capabilities we will need to distribute our renewable fuels products in the U.S., we have established our subsidiary Amyris Fuels, LLC. Amyris Fuels currently generates revenues by selling third party ethanol to wholesale customers through a network of 13 storage terminals in the southeastern U.S., including in Georgia, North Carolina, South Carolina, Virginia and Tennessee.

To date we have not generated any revenues from the commercialization of our own products. Our revenues have come from ethanol sales by Amyris Fuels, which accounted for 77% and 95% of our total revenues in 2008 and 2009, respectively, and from collaborative research services and grants.

We continue to experience significant losses as we invest in research and development, commercial facility design, sales and marketing and administrative infrastructure. As of December 31, 2009, we had an accumulated deficit of \$120.4 million. We incurred net losses attributable to Amyris shareholders of \$11.8 million, \$41.9 million and \$64.5 million in 2007, 2008 and 2009, respectively.

Recent Developments

On April 14, 2010, we entered into a joint venture with Usina São Martinho to build a new production facility for the production of our products at the Usina São Martinho sugar and ethanol mill located in São Paulo state. The joint venture, SMA Indústria Química S.A., was created to build the first facility in Brazil fully dedicated to the production of Amyris renewable products. The new company will be located at Usina São Martinho in Pradópolis, São Paulo state.

The joint venture will be managed by a three-member executive committee, of which we appoint two members, including the plant director who is the most senior executive. The executive committee will be responsible for managing the construction and operation of the production facility. The joint venture will be governed by a four-member board of directors, of which we and Usina São Martinho will each appoint two members. The board of directors has certain protective rights which include final approval of the engineering designs and project work plan developed and recommended by the executive committee.

The construction of the facility at Usina São Martinho will be the first project of this nature that we will design and manage. We expect the construction costs of the new facility to total between \$80 million to \$100 million. Under the terms of our joint venture agreement, construction of the production facility will take place in two phases. Phase I is designed to construct a facility capable of producing farnesene from one million tons of crushed sugarcane, and Phase II will expand that capacity to two million tons. Within one year of the commencement of Phase I commercial operations, Usina São Martinho will be required to reimburse us for half of the cost of Phase I, up to a cap of 30.9 million reais (\$17.5 million based on exchange rate at April 2, 2010). Thereafter, Usina São Martinho will co-fund the construction of Phase II and, as necessary, make a final payment at completion such that their total contribution will be 61.8 million reais (\$35.0 million based on exchange rate at April 2, 2010).

Post commercialization, Amyris will market and distribute the Amyris renewable products. São Martinho will sell feedstock and provide certain other services to the joint venture. The cost of the feedstock to the joint venture is a price that is based on the average return that Usina São Martinho could receive from the production of its current products, sugar and ethanol. We are required to purchase the output of the joint

venture for the first four years at a price that guarantees the return of Usina São Martinho s investment plus a fixed interest rate.

Under the terms of the joint venture agreements, if Amyris Brasil becomes controlled, directly or indirectly, by a competitor of Usina São Martinho, then Usina São Martinho has the right to acquire our interest in the joint venture. If Usina São Martinho becomes controlled, directly or indirectly, by a competitor of ours, then we have the right to sell our interest in the joint venture to Usina São Martinho. In either case, the purchase price shall be

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determined in accordance with the joint venture agreements, and we would continue to have the obligation to acquire products produced by the joint venture for the remainder of the term of the supply agreement then in effect even though we would no longer be involved in the joint venture s management.

Financial Operations Overview

Revenues

To date, our revenues have consisted of sales of ethanol, collaborative research services and government grants.

Product sales. Product sales are derived from sales of ethanol purchased from third parties under short-term agreements at prevailing market prices.

Collaborative research services. Collaborative research service revenues generally consist of payments for research and development activities for specific projects. These payments may include a combination of cost plus reimbursement, up-front payments or milestone payments.

Government grants. Government grant revenues consist of payments from government entities. The terms of these grants generally provide us with reimbursement for research and development services and certain types of capital expenditures over a contractually defined period.

Ethanol sales by Amyris Fuels accounted for 77% and 95% of our total revenues in 2008 and 2009, respectively. The balance of our revenues has come from collaborative research services and grants. Prior to commercialization of our products, we expect to increase revenues from grants and collaborations. We expect to receive approximately \$24.3 million in funding for 2010 through 2012 under a grant from the DOE. Under this grant, we would be required to fund an additional \$10.5 million in cost sharing expenses. We expect revenues from the sale of our renewable products to comprise an increasing portion of our total revenues.

We expect to commercialize our renewable products starting in 2011. We anticipate that our revenues from sales of our renewable products may be significantly lower in the first quarter of each year, as we expect to produce and sell the majority of our products during the sugarcane harvesting period, which typically begins in April or May and ends in November or December in the region of Brazil where we intend to locate the majority of our production capacity.

Cost and Operating Expenses

Cost and operating expenses consist of cost of product sales, research and development expenses, sales, general and administrative expenses and restructuring and asset impairment charges. Cost of product sales and personnel-related expenses comprise the most significant components of these expenses. We expect to continue to hire new employees, particularly in process development and manufacturing and general and administration in order to support our anticipated growth.

Cost of Product Sales. Our cost of product sales consists primarily of cost of purchased ethanol products, terminal fees paid for storage and handling, transportation costs between terminals, product losses and changes in the fair value of the derivative contracts used for hedging the price volatility of ethanol. To date gross margins on product sales have been nominal given the relatively high cost of ethanol compared to the price at which ethanol is sold. We expect gross margins to improve once we are producing through the joint venture with Usina São Martinho and additional sugar and ethanol mills. We expect lower margins on products produced by contract manufacturers than on products produced by our joint venture or by sugar and ethanol mills with whom we are partnering. In the future, gross margins may vary depending on the mix of specialty chemicals and renewable fuels that we produce. We expect that the cost of our products will be comprised primarily of the cost of the products paid to the mill owners or the contract manufacturer and, if applicable, chemical finishing and distribution costs.

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Research and Development. Research and development expenses consist primarily of expenses for personnel engaged in the development of new products, the expansion of product applications and the improvement in yield. These expenses also consist of facilities costs and other related overhead and lab materials. We expense all of our research and development costs as they are incurred. In the near term, we expect to hire additional employees, as well as incur contract-related expenses as we continue to invest in the development of our products. Accordingly, we expect that our research and development expenses will continue to increase.

Sales, General and Administrative. Sales, general and administrative expenses consist primarily of personnel-related expenses related to our executive, legal, finance, human resource and information technology functions, as well as fees for professional services and allocated facility overhead expenses. These expenses also include costs related to our sales function, including marketing programs and other allocated costs. Professional services consist principally of external legal, accounting, tax, audit and other consulting services. We expect sales, general and administrative expenses to increase as we incur additional costs related to operating as a publicly-traded company, including increased legal fees, accounting, costs of compliance with securities, corporate governance and other regulations, investor relations expenses and higher insurance premiums, particularly those related to director and officer insurance. In addition, we expect to incur additional costs as we hire personnel and enhance our infrastructure to support the anticipated growth of our business.

Restructuring and Asset Impairment Charges. Restructuring and asset impairment charges consist primarily of non-cash charges relating to the consolidation of our headquarters in a single facility in Emeryville, California, and asset impairment charges related to the vacated facility.

Other Income (Expense), Net

Interest Income. Interest income consists primarily of interest income earned on investments and cash balances. Our interest income will vary each reporting period depending on our average investment balances during the period and market interest rates. We expect interest income to fluctuate in the future with changes in average investment balances and market interest rates.

Interest Expense. We recognize interest expense on all of our capital leases, loans payable and debt obligations. We expect interest expense to fluctuate in the future with changes in our debt obligations.

Other Income (Expense), Net. Other income (expense), net consists primarily of the change in the fair value of our convertible preferred stock warrants, change in the fair value of our auction rate securities (ARS) and our rights to sell our ARS. Our outstanding convertible preferred stock warrants are classified as a liability and the change in the fair value of these warrants will vary based on multiple factors, but will generally increase if the fair value of underlying stock increases. We will continue to record adjustments to the fair value of the warrants until they are exercised, converted into warrants to purchase common stock or expire, at which time the warrants will no longer be remeasured at each balance sheet date and the then-current aggregate fair value of these warrants will be reclassified from liabilities to common stock and we will cease to record any related periodic fair value adjustments.

Income Taxes

Provision for (Benefit from) Income Taxes. Since inception, we have incurred net losses and have not recorded any U.S. federal and state and non-U.S. income tax provisions, with limited exceptions in several years, since the tax benefits of our net losses have been offset by valuation allowances.

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Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations is based upon our consolidated financial statements, which have been prepared in accordance with accounting principles generally accepted in the U.S. The preparation of these consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues, expenses and related disclosures. We base our estimates and assumptions on historical experience and on various other factors that we believe to be reasonable under the circumstances. We evaluate our estimates and assumptions on an ongoing basis. The results of our analysis form the basis for making assumptions about the carrying values of assets and liabilities that are not readily apparent from other sources. Our actual results may differ from these estimates under different assumptions or conditions.

We believe the following critical accounting policies involve significant areas of management s judgments and estimates in the preparation of our financial statements.

Revenue Recognition

We currently recognize revenues from the sale of ethanol, the delivery of collaborative research services and from government grants. Revenues are recognized when all of the following criteria are met: persuasive evidence of an arrangement exists, delivery has occurred or services have been rendered, the fee is fixed or determinable and collectability is reasonably assured.

If sales arrangements contain multiple elements, we evaluate whether the components of each arrangement represent separate units of accounting. We have determined that all of our revenue arrangements should be accounted for as a single unit of accounting. Application of the standard requires subjective determination and requires management to make judgments about the fair values of each individual element and whether it is separable from other aspects of the contractual relationship.

For each source of revenues, we apply the above revenue recognition criteria in the following manner:

Product Sales

We sell ethanol under short-term agreements and in spot transactions at prevailing market prices. Revenues are recognized, net of discounts and allowances, once passage of title and risk of loss have occurred and contractually specified acceptance criteria have been met, provided all other revenue recognition criteria have also been met.

Shipping and handling costs charged to customers are recorded as revenues. Shipping costs are included in cost of product revenues. Such charges were not significant in any of the periods presented.

Collaborative Research Services

Revenues from collaborative research services are recognized as the services are performed consistent with the performance requirements of the contract. In cases where the planned levels of research services fluctuate over the research term, we recognize revenues using the proportionate performance method based upon actual efforts to date relative to the amount of expected effort to be incurred by us. When up-front payments are received and the planned levels of research services do not fluctuate over the research term, revenues are recorded on a ratable basis over the arrangement term, up to the amount of cash received. When up-front payments are received and the planned levels of research services fluctuate over the research term, revenues are recorded using the proportionate performance method, up to the amount of cash received. Where arrangements include milestones that are determined to be substantive and at risk at the inception of the arrangement, revenues are recognized upon achievement of the milestone and is limited to those amounts whereby collectability is reasonably assured.

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Government Grants

Government grants are made pursuant to agreements that generally provide cost reimbursement for certain types of expenditures in return for research and development activities over a contractually defined period. Revenues from government grants are recognized in the period during which the related costs are incurred, provided that the conditions under which the government grants were provided have been met and only perfunctory obligations are outstanding.

Impairment of Long-Lived Assets

We assess impairment of long-lived assets, which include property and equipment, on at least an annual basis and test long-lived assets for recoverability when events or changes in circumstances indicate that their carrying amount may not be recoverable. Circumstances which could trigger a review include, but are not limited to, significant decreases in the market price of the asset; significant adverse changes in the business climate or legal factors; accumulation of costs significantly in excess of the amount originally expected for the acquisition or construction of the asset; current period cash flow or operating losses combined with a history of losses or a forecast of continuing losses associated with the use of the asset; or expectations that the asset will more likely than not be sold or disposed of significantly before the end of its estimated useful life.

Recoverability is assessed based on the fair value of the asset, which is calculated as the sum of the undiscounted cash flows expected to result from the use and the eventual disposal of the asset. An impairment loss is recognized in the consolidated statements of operations when the carrying amount is determined to be not recoverable and exceeds fair value, which is determined on a discounted cash flow basis.

We make estimates and judgments about future undiscounted cash flows and fair values. Although our cash flow forecasts are based on assumptions that are consistent with our plans, there is significant exercise of judgment involved in determining the cash flow attributable to a long-lived asset over its estimated remaining useful life. Our estimates of anticipated cash flows could be reduced significantly in the future. As a result, the carrying amounts of our long-lived assets could be reduced through impairment charges in the future.

Convertible Preferred Stock Warrants

Freestanding warrants to purchase shares of our convertible preferred stock are classified as liabilities on our consolidated balance sheets at fair value because the warrants may conditionally obligate us to redeem the underlying convertible preferred stock at some point in the future. The warrants are subject to remeasurement at each balance sheet date, and any change in fair value is recognized as a component of other income (expense), net in the consolidated statements of operations. We estimated the fair value of these warrants at the respective balance sheet dates using the Black-Scholes option pricing model. We use a number of assumptions to estimate the fair value including the remaining contractual terms of the warrant, risk-free interest rates and expected dividend yield and expected volatility of the price of the underlying common stock. These assumptions are highly judgmental and could differ significantly in the future.

For 2007, 2008 and 2009, we recorded charges of \$0, \$0.1 million and \$0.4 million through other income (expense), net to reflect the change in the fair value of the warrants.

We will continue to record adjustments to the fair value of the warrants until they are exercised, converted into warrants to purchase common stock or expire, at which time the warrants will no longer be remeasured at each balance sheet date. At that time, the then-current aggregate fair value of these warrants will be reclassified from liabilities to common stock and we will cease to record any related periodic fair value adjustments.

Stock-Based Compensation

Our stock-based compensation expense is as follows:

	Years	Years Ended December 31		
	2007	2007 2008 2		
	(Do	llars in thou	sands)	
Research and development	\$ 117	\$ 632	\$ 773	
Sales, general and administrative	429	1,395	2,526	
Total stock-based compensation expense	\$ 546	\$ 2,027	\$ 3,299	

We recognize compensation expense related to share-based transactions, including the awarding of employee stock options, based on the grant date estimated fair value. We amortize the fair value of the employee stock options on a straight-line basis over the requisite service period of the award, which is generally the vesting period.

In future periods, our stock-based compensation expense is expected to increase as a result of our existing unrecognized stock-based compensation still to be recognized and as we issue additional stock-based awards in order to attract and retain employees and nonemployee consultants.

Significant Factors, Assumptions and Methodologies Used In Determining Fair Value

We utilize the Black-Scholes option pricing model to estimate the fair value of our share-based payment awards. The Black-Scholes option pricing model requires inputs such as the expected term of the grant, expected volatility and risk-free interest rate. Further, the forfeiture rate also affects the amount of aggregate compensation that we are required to record as an expense. These inputs are subjective and generally require significant judgment.

The fair value of employee stock options was estimated for 2007, 2008 and 2009 using the following weighted-average assumptions:

	Years En	Years Ended December 31,			
	2007	2008	2009		
Expected dividend yield	0%	0%	0%		
Risk-free interest rate	3.9%-4.7%	3.2%	2.8%		
Expected term (in years)	6.0	6.0	6.0		
Expected volatility	70%	70%	97%		

Our expected term is derived from a comparable group of publicly listed companies that has a similar industry, life cycle, revenue and market capitalization profile.

Our expected volatility is derived from the historical volatilities of several unrelated public companies within our industry over a period equal to the expected term of our options because we do not have any trading history to use for calculating the volatility of our own common stock. We based our analysis of expected volatility on reported data for comparable companies that issued options with substantially similar terms using an average of the historical volatility measures of this group of comparable companies.

Our risk-free interest rate is based on the U.S. Treasury yield curve in effect at the time of grant for zero coupon U.S. Treasury notes with maturities approximately equal to each option s expected term.

Our expected dividend yield was assumed to be zero as we have not paid, and do not anticipate paying, cash dividends on our shares of common stock.

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We estimate our forfeiture rate based on an analysis of our actual forfeitures and will continue to evaluate the appropriateness of the forfeiture rate based on actual forfeiture experience, analysis of employee turnover and other factors. Quarterly changes in the estimated forfeiture rate can have a significant effect on reported stock-based compensation expense, as the cumulative effect of adjusting the rate for all expense amortization is recognized in the period the forfeiture estimate is changed. If a revised forfeiture rate is higher than the previously estimated forfeiture rate, an adjustment is made that will result in a decrease to the stock-based compensation expense recognized in the consolidated financial statements. If a revised forfeiture rate is lower than the previously estimated forfeiture rate, an adjustment is made that will result in an increase to the stock-based compensation expense recognized in the consolidated financial statements.

We will continue to use judgment in evaluating the expected term, volatility and forfeiture rate related to our own stock-based compensation on a prospective basis and incorporating these factors into the Black-Scholes option pricing model.

Each of these inputs is subjective and generally requires significant management and director judgment to determine. If, in the future, we determine that another method for calculating the fair value of our stock options is more reasonable, or if another method for calculating these input assumptions is prescribed by authoritative guidance, and, therefore, should be used to estimate expected volatility or expected term, the fair value calculated for our employee stock options could change significantly. Higher volatility and longer expected terms generally result in an increase to stock-based compensation expense determined at the date of grant.

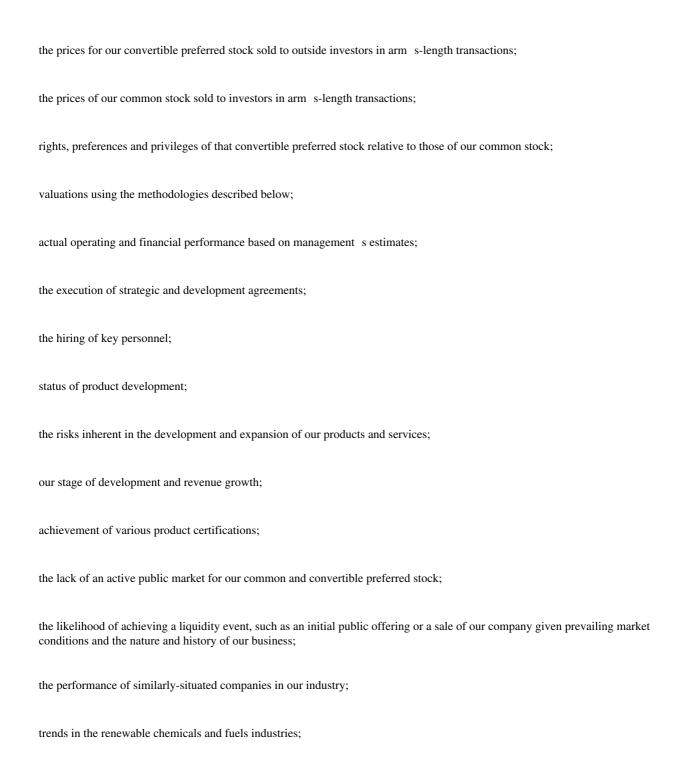
The following table summarizes the options granted from January 1, 2008, through the date of this prospectus:

Grant Date	Number of Options Granted	Exercise Price Per Share	Estimated Fair Value Per Share	Intrinsic Value Per Share
January 2, 2008	51,700	\$ 3.93	\$ 4.26*	\$ 0.33
February 1, 2008	103,900	3.93	4.35*	0.42
February 27, 2008	210,000	3.93	4.43*	0.50
March 7, 2008	49,000	3.93	4.58*	0.65
April 1, 2008	285,970	3.93	5.08*	1.15
May 7, 2008	113,500	3.93	5.80*	1.87
June 2, 2008	135,500	3.93	6.33*	2.40
August 25, 2008	279,979	3.93	7.95*	4.02
September 15, 2008	60,000	3.93	8.36*	4.43
September 14, 2009	965,153	4.31	4.31	
October 27, 2009	144,400	4.31	4.31	
January 7, 2010	1,178,810	9.32	9.32	
March 19, 2010	236,500	14.28	14.28	

^{*} We reassessed the fair value of our common stock subsequent to the grant date

All options granted by our board of directors on the dates noted above were intended to be exercisable at the fair value of our stock based on information known at that time. For the purposes of recording stock-based compensation expense, we reviewed the historical pattern of our common stock, and subsequently reassessed the fair value of our stock for the options granted from January 2, 2008, through September 15, 2008.

The fair values of the common stock underlying our stock options have historically been determined by our Board of Directors with input from management. In the absence of a public trading market for our common stock, our Board has determined the fair value of the common stock utilizing methodologies, approaches and assumptions consistent with the American Institute of Certified Public Accountants Practice Guide, Valuation of Privately-Held-Company Equity Securities Issued as Compensation, (referred to herein as the AICPA Practice Guide). In addition, our Board of Directors considered numerous objective and subjective factors including:



industry information such as market growth and volume; and

macro-economic events.

Our Board of Directors considered common stock valuations performed as of September 16, 2008, August 7, 2009, December 29, 2009, and March 9, 2010, in determining the grant date fair value of common stock. Using these valuations, and the other factors described above, our Board of Directors made the following estimates of fair value of our common stock.

Valuation Date	Fair Value Per Share
September 16, 2008	\$ 8.38
August 7, 2009	4.31
December 29, 2009	9.32
March 9, 2010	14.28

The valuations that our Board of Directors considered in determining the fair value of our common stock from September 2008 through October 2009 were based on the estimated aggregate enterprise value at the valuation date using the implied equity value from our convertible preferred stock financings, as the probability of a sale or merger occurring in the foreseeable future were deemed to be highly uncertain. In order to arrive at the fair value of our common stock, the indicated enterprise value of our company calculated at the valuation date was allocated to the shares of convertible preferred stock and the warrants to purchase convertible preferred

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stock, and shares of common stock and the options to purchase common stock using an option pricing methodology. The option pricing method treats common stock and preferred stock as call options on the total equity value of a company, with exercise prices based on the value thresholds at which the allocation among the various holders of a company securities changes. Under this method, the common stock has value only if the funds available for distribution to shareholders exceed the value of the liquidation preference at the time of a liquidity event, such as a strategic sale, merger or initial public offering, assuming the enterprise has funds available to make a liquidation preference meaningful and collectible by the holders of preferred stock. The common stock is modeled as a call option on the underlying equity value at a predetermined exercise price. In the model, the exercise price is based on a comparison with the total equity value rather than, as in the case of a regular call option, a comparison with a per share stock price. Thus, common stock is considered to be a call option with a claim on the enterprise at an exercise price equal to the remaining value immediately after the preferred stock is liquidated. The option pricing method uses the Black-Scholes option pricing model to price the call options. This model defines the securities fair values as functions of the current fair value of a company and uses assumptions such as the anticipated timing of a potential liquidity event and the estimated volatility of the equity securities. The anticipated timing of a liquidity event utilized in these valuations was based on then-current plans and estimates of our Board of Directors and management regarding a liquidity event utilized in these valuations was based on then-current plans and estimates of our Board of Directors and management regarding a liquidity event utilized in these valuations was based on then-current plans and estimates of our Board of Directors and management regarding a liquidity event.

The common stock valuation as of September 16, 2008, was performed following the commencement of sale of shares of our Series B-1 preferred stock sold during the period from February 2008 to January 2009 at a price of \$25.26 per share to several venture capital and private equity firms. The price per share for the Series B-1 shares and the terms of the transactions were the result of negotiations between us and the Series B-1 investors.

The common stock valuation as of August 7, 2009, was performed following the commencement of our sale of shares of our Series C preferred stock in July 2009 at a price of \$12.46 per share to several venture capital and private equity firms. The price per share for the Series C shares and the terms of the transactions were the result of negotiations between us and the Series C investors.

Commencing in December 2009, the valuations that our Board of Directors considered in determining the fair value of our common stock were based on the market approach and the income approach to estimate our aggregate enterprise value at each valuation date. The market approach measures the value of a company through the analysis of recent sales of comparable companies. Consideration is given to the financial condition and operating performance of the company being valued relative to those of publicly traded companies operating in the same or similar lines of business. When choosing the comparable companies to be used for the market approach, we focused on companies in our industry. Some of the specific criteria used to select comparable companies within this industry include the business description, business size, projected growth, financial condition and historical earnings. The income approach measures the value of a company as the present value of its future economic benefits by applying an appropriate risk-adjusted discount rate to expected cash flows, based on forecasted revenues and costs. We prepared a financial forecast for each valuation to be used in the computation of the enterprise value for both the market approach and the income approach. The financial forecasts took into account our past experience and future expectations. The risks associated with achieving these forecasts were assessed in selecting the appropriate discount rate.

These contemporaneous valuations used two equity allocation scenarios to derive our common stock fair value as follows: (i) a sale or merger scenario and (ii) an initial public offering scenario. Under both scenarios, we used an options-based methodology for allocating the estimated aggregate value to each of our securities using the Black-Scholes option-pricing model. We also considered the price per share of common stock established in recent transactions among our shareholders. Each of the aggregate values of the common stock derived from the two option pricing models was then divided by the number of shares of common stock

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outstanding to arrive at a per share value. A discount for lack of marketability was applied to reflect the increased risk arising from the inability to readily sell the shares.

There is inherent uncertainty in these estimates and if we had made different assumptions than those described above, the amount of our stock-based compensation expense, net loss and net loss per share amounts could have been significantly different.

Discussion of Specific Valuation Inputs

We granted stock options in 2008, 2009 and 2010 with exercise prices between \$3.93 and \$14.28 per share. No single event caused the valuation of our common stock to increase or decrease from January 2008 to April 2010; rather, it has been a combination of the following factors that led to the changes in the fair value of the underlying common stock:

January to March 2008: In January 2008, we appointed a Chief Financial Officer. In February 2008, we closed the first round of our Series B-1 convertible preferred stock financing, at a price of \$25.26 per share. In March 2008, we announced a development agreement for artemisinin with One World Health and sanofi-aventis. In March 2008 we also established our subsidiary Amyris Brasil S.A. in Campinas, Brazil. For option grants from January to March 2008, the Board of Directors deemed the fair market value of the common stock to be \$3.93. However, for purposes of computing the related stock compensation expense the fair value of our common stock was subsequently reassessed at \$4.26-\$4.58 per share for options granted from January 2008 to March 2008.

April to September 2008: During this period, we completed subsequent rounds of our Series B-1 convertible preferred stock financing at a price of \$25.26 per share. In June 2008, we began generating revenues through our Amyris Fuels, LLC subsidiary. For option grants from April to September 2008, the board deemed the fair market value of the option grants to be \$3.93. However, for purpose of computing the related stock compensation expense the fair value of our common stock was subsequently reassessed at \$5.08-\$8.36 per share for options granted from April 2008 to September 2008.

October 2008 to June 2009: In November 2008, we completed our first test runs at our pilot plant in Emeryville, California, to produce renewable products. In November 2008, we appointed a Senior Vice President of Research Programs and Operations. In December 2008, we determined market conditions had deteriorated and reduced our workforce by 12%. In January 2009, we closed the final round of our Series B-1 convertible preferred stock financing at a price of \$25.26 per share. In April 2009, we received EPA registration for our renewable diesel fuel. In June 2009, we completed our initial production runs at our 300 liter scale fermentors in our pilot plant in Campinas, Brazil, to transition our yeast and processes into Brazil. Additionally in June 2009, through the use of a contract manufacturer, we completed our first initial production runs in 60,000 liter scale fermentors to evaluate results at a larger scale and to produce renewable diesel fuel to support our certification efforts. No options were granted during the period from October 2008 to August 2009.

July to October 2009: In July 2009, we closed the first round of our Series C convertible preferred stock financing at a price of \$12.46 per share, which was 51% lower than the price per share we received from our Series B-1 convertible preferred stock financing in 2008 resulting from unfavorable market conditions related to the availability of private funding at the time. In September 2009, we began operations of our 5,000 liter scale demonstration facility in Campinas, Brazil. As a result of these transactions, and applying the Common Stock valuation methodology described above, we estimated the fair value of our common stock to be \$4.31 per share as of August 7, 2009, and it remained at that price through the end of October 2009 because there were no significant developments in our business.

November to December 2009: In November 2009, we secured a patent covering our second potential jet fuel product and another patent covering our lubricant products. We also signed a memorandum of understanding

with two international corporations to evaluate the technical and sustainability aspects of our renewable jet fuel. In addition, we signed a binding letter of intent related to the construction and launch of our first commercial facility at an ethanol mill owned by Usina São Martinho in Brazil. In December 2009, we received a notice of selection from the DOE, authorizing a grant for \$24.3 million. Further, we announced letters of intent with Bunge Limited, Cosan and Açúcar Guarani for the purpose of partnering for the production of renewable chemicals and fuels. We also appointed a Chief Commercial Officer and a Chief Operating Officer. In December, three of our founders and our CEO sold to four existing investors shares of common stock representing in each case less than 10% of their overall common stock and options holdings at a price of \$7.00 per share. Due to the change in the equity markets, in December we also deemed the probability of completing an initial public offering to be probable in the next eighteen months. As a result of these transactions, and applying the Common Stock valuation methodology described above, we estimated the fair value of our common stock to be \$9.32 per share as of December 31, 2009. No options were granted during the period from November to December 2009.

January 2010 to February 2010: From December 29, 2009, to January 10, 2010, our valuation remained at \$9.32 per share because there were no significant developments in our business. In January 2010, we ordered four 600,000 liter commercial fermentors for the purpose of commencing commercial production in our Usina São Martinho joint venture facility. Also in January 2010, we commenced negotiations to receive \$3.9 million from a DOE grant, which is being made to the NREL, and under which we would be a subcontractor. Additionally, in January we closed the final round of our Series C convertible preferred stock financing at a price of \$12.46 per share. In February 2010, we received approval from the Brazilian government to use our current yeast strain in commercial production. During this period we began discussions with investment banks regarding an IPO.

March 2010 to April 2010: In March 2010, we received an additional \$1.7 million investment from an investor in Amyris Brasil and we completed our \$47.8 million Series C-1 preferred stock financing at a price of \$17.56 per share. In April 2010, we entered into a joint venture with Usina São Martinho.

Nonemployee Stock-Based Compensation

We account for stock options issued to nonemployees based on the estimated fair value of the awards using the Black-Scholes option pricing model. We account for restricted stock units (RSUs) issued to nonemployees based on the estimated fair value of our common stock. The measurement of stock based compensation is subject to periodic adjustments as the underlying equity instruments vest, and the resulting change in value, if any, is recognized in our consolidated statement of operations during the period the related services are rendered.

Stock-based compensation expense for options and RSUs granted to nonemployees for 2007, 2008 and 2009 was \$0.2 million, \$0.7 million and \$0.7 million.

There is inherent uncertainty in these estimates and if different assumptions had been used, the fair value of the equity instruments issued to nonemployee consultants could have been significantly different.

Income Taxes

We are subject to income taxes in both the U.S. and foreign jurisdictions, and we use estimates in determining our provisions for income taxes. We use the liability method of accounting for income taxes, whereby deferred tax assets or liability account balances are calculated at the

balance sheet date using current tax laws and rates in effect for the year in which the differences are expected to affect taxable income.

Recognition of deferred tax assets is appropriate when realization of such assets is more likely than not. We recognize a valuation allowance against our net deferred tax assets if it is more likely than not that some portion of the deferred tax assets will not be fully realizable. This assessment requires judgment as to the likelihood and amounts of future taxable income by tax jurisdiction. At December 31, 2009, we had a full valuation allowance against all of our deferred tax assets.

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Effective January 1, 2007, we adopted ASC 740-10 to account for uncertain tax positions. As of December 31, 2007, 2008 and 2009, our total unrecognized tax benefits were \$0.1, \$0.6 and \$1.0 million, of which none of the tax benefits, if recognized, would affect the effective income tax rate due to the valuation allowance that currently offsets deferred tax assets. We do not anticipate the total amounts of unrecognized income tax benefits will significantly increase or decrease in the next 12 months.

We assess all material positions taken in any income tax return, including all significant uncertain positions, in all tax years that are still subject to assessment or challenge by relevant taxing authorities. Assessing an uncertain tax position begins with the initial determination of the position s sustainability and is measured at the largest amount of benefit that is greater than 50 percent likely of being realized upon ultimate settlement. As of each balance sheet date, unresolved uncertain tax positions must be reassessed, and we will determine whether (i) the factors underlying the sustainability assertion have changed and (ii) the amount of the recognized tax benefit is still appropriate. The recognition and measurement of tax benefits requires significant judgment. Judgments concerning the recognition and measurement of a tax benefit might change as new information becomes available.

Results of Operations

The following table sets forth our consolidated results of operations for the periods shown:

	Years Ended December 31, 2007 2008 200 (Dollars in thousands)		
Consolidated Statements of Operations Data:			
Revenues			
Product sales	\$	\$ 10,680	\$ 61,689
Collaborative research services	6,046	3,008	2,919
Government grants	138	204	
Total revenues	6,184	13,892	64,608
Cost and operating expenses			
Cost of product sales		10,364	60,428
Research and development	8,662	30,306	38,263
Sales, general and administrative	10,522	16,622	23,558
Restructuring and asset impairment charges			5,768
Total cost and operating expenses	19,184	57,292	128,017
Loss from operations	(13,000)	(43,400)	(63,409)
Other income (expense)			
Interest income	1,178	1,378	448
Interest expense	(28)	(377)	(1,218)
Other income (expense), net	76	(144)	(621)
Total other income (expense)	1,226	857	(1,391)
Loss before income taxes	(11,774)	(42,543)	(64,800)
Benefit from income taxes	, , ,	(207)	
Net loss	(11,774)	(42,336)	(64,800)

Net loss attributable to noncontrolling interest (472)

Net loss attributable to Amyris Biotechnologies, Inc. shareholders \$ (11,774) \$ (41,864) \$ (64,459)

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Comparison of Years Ended December 31, 2008 and 2009

Revenues

	Years Ende 2008	d December 31, 2009 (Dollars in thous	Change in 2009 \$		
Revenues		(2011151110115			
Product sales	\$ 10,680	\$ 61,689	\$ 51,009		
Collaborative research services	3,008	2,919	(89)		
Government grants	204		(204)		
Total revenues	\$ 13,892	\$ 64,608	\$ 50,716		

Our total revenues increased by \$50.7 million to \$64.6 million in 2009 from \$13.9 million in 2008. The increase was primarily the result of the \$51.0 million increase in sales of ethanol purchased from third parties to \$61.7 million in 2009 from \$10.7 million in 2008, as we commenced our ethanol trading business in the second half of 2008. We sold 29.9 million gallons of ethanol in 2009 compared to 4.7 million gallons in 2008, as we had an increase in the number of customers and accessed additional terminal space in 2009.

Revenues from collaborative research services were relatively flat in 2009 compared to 2008. Collaborative research service revenues in 2009 included \$1.6 million for contracted research services focused on strain improvement performed on behalf of Sanofi Chimie. Additionally, 2009 collaborative research services included \$1.3 million related to the completion of our work under an agreement with One World Health and sanofi-aventis related to the anti-malaria product. Collaborative research service revenues in 2008 included \$3.0 million associated with the same agreement.

Cost and Operating Expenses

Years Ender 2008	2009		nge in 2009 \$
\$ 10,364	\$ 60,428	\$	50,064
30,306	38,263		7,957
16,622	23,558		6,936
	5,768		5,768
\$ 57 292	\$ 128 017	\$	70.725
	\$ 10,364 30,306	\$ 10,364 \$ 60,428 30,306 38,263 16,622 23,558 5,768	2008 2009 (Dollars in thousands) \$ 10,364 \$ 60,428 \$ 30,306 38,263 16,622 23,558 5,768

Cost of Product Sales

Our cost of product sales increased by \$50.1 million in 2009, primarily due to higher volumes of ethanol sales.

Research and Development Expenses

Our research and development expenses increased by \$8.0 million in 2009 over 2008, primarily the result of \$5.0 million in additional expenses from a full year of facility-related expenses and depreciation costs for our headquarters, that includes lab and office space, and our pilot plant in Emeryville, California, both of which we occupied in the second and third quarter of 2008, respectively, and the growth of our operations in Brazil. Our 2009 research and development expenses also included facility-related expenses and depreciation costs relating to our pilot plant and demonstration facility in Campinas, Brazil, that opened in 2009. The increase was also

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attributable to increased personnel-related expenses of \$4.3 million, due in part to an increase in research and development personnel in Brazil associated with the expansion of the Brazil operations. These increases were offset in part by lower professional services fees of \$1.5 million incurred in 2009 compared to 2008 when we used consultants to facilitate our research efforts. Research and development expenses included stock-based compensation expense of \$0.6 million and \$0.8 million during 2008 and 2009.

Sales, General and Administrative Expenses

Our sales, general and administrative expenses increased by \$6.9 million in 2009 primarily as a result of increased personnel-related expenses of \$3.0 million, and higher consulting and professional fees of \$3.1 million. The increase in consulting and professional fees was due to the expansion of our Brazilian operations and the use of consultants to negotiate other contracts during the year in addition to consulting costs associated with the initial design work for a commercial production facility in Brazil. To a lesser extent, the increase was due to an increase in depreciation costs due to leasehold improvements associated with a full year of depreciation for our headquarters in Emeryville, California. Sales, general and administrative expenses included stock-based compensation expense of \$1.4 million and \$2.5 million during 2008 and 2009.

Restructuring and Asset Impairment Charges

Restructuring and asset impairment charges were \$5.8 million and consisted primarily of non-cash charges related to consolidation of our headquarters in a single facility in Emeryville, California, and asset impairment charges related to the vacated facility in 2009. These costs represent future rent expense, write off of leasehold improvements and the reversal of deferred rent associated with the leased facility.

Other Income (Expense)

	Years Ended 2008	l December 31, 2009 (Dollars in thousan	Change in 2009 \$ nds)	
Other income (expense)				
Interest income	\$ 1,378	\$ 448	\$	(930)
Interest expense	(377)	(1,218)		(841)
Other income (expense), net	(144)	(621)		(477)
Total other income (expense)	\$ 857	\$ (1,391)	\$	(2,248)

Interest Income

Interest income decreased by \$0.9 million in 2009. The decrease was a result of lower interest rates, partially offset by higher average investment balances.

Interest Expense

Interest expense increased by \$0.8 million in 2009.	The increase resulted primarily	y from higher outstanding	principal balances on our capital
leases in 2009 compared to 2008.			

Other Income (Expense), Net

Other income (expense), net increased by \$0.5 million in 2009 primarily due to higher expense related to the increase in the fair value of our convertible preferred stock warrants.

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Comparison of Years Ended December 31, 2007 and 2008

Revenues

	Years Ender 2007	d December 31, 2008 (Dollars in thous	Change in 2008 \$ ands)	
Revenues				
Product sales	\$	\$ 10,680	\$ 10,680	
Collaborative research services	6,046	3,008	(3,038)	
Government grants	138	204	66	
Total revenues	\$ 6,184	\$ 13,892	\$ 7,708	

Our total revenues increased \$7.7 million to \$13.9 million in 2008 from \$6.2 million in 2007. The increase was primarily the result of the \$10.7 million in sales of third party ethanol in 2008 for 4.7 million gallons of ethanol sold compared to zero in 2007.

Revenues from government grants increased by \$0.1 million in 2008 primarily as a result of a professional services contract with a research institution compared to a lower level of grant funding from Small Business Innovation Research in 2007.

Revenues from collaborative research services decreased by \$3.0 million in 2008 primarily as a result of the substantial completion of the anti-malaria product development, which was completed in 2009.

Cost and Operating Expenses

	Years Ended 2007	d December 31, 2008 (Dollars in thousa	nge in 2008 \$
Cost and operating expenses			
Cost of product sales	\$	\$ 10,364	\$ 10,364
Research and development	8,662	30,306	21,644
Sales, general and administrative	10,522	16,622	6,100
Total cost and operating expenses	\$ 19,184	\$ 57,292	\$ 38,108

Cost of Product Sales

Our cost of product sales increased to \$10.4 million in 2008 from zero in 2007 as a result of the commencement of ethanol sales in 2008.

Research and Development Expenses

Our research and development expenses increased by \$21.6 million in 2008, primarily as a result of higher facility-related expenses and depreciation costs of \$9.4 million. In May 2008, we entered into an operating lease for our facility in Campinas, Brazil. Also contributing to this increase was higher facility-related expenses and depreciation costs for our new headquarters in Emeryville, California, which includes lab and office space, and costs associated with the pilot plant also in located in Emeryville. Additionally, we incurred higher personnel-related expenses of \$6.8 million attributable to a 91% increase in employee headcount in our research and development functions over the prior year. We also incurred higher professional fees of \$3.0 million as we leveraged consultants during this expansion phase as well as \$1.9 million in higher expenses associated with lab supplies. Research and development expenses included stock-based compensation expense of \$0.1 million and \$0.6 million during 2007 and 2008.

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Sales, General and Administrative Expenses

Our sales, general and administrative expenses increased by \$6.1 million in 2008 primarily as a result of \$5.4 million in increased personnel-related expenses attributable to higher sales and general and administrative headcount, which increased 48% over the prior year. We increased our headcount in Emeryville and in Chicago, where we established Amyris Fuels, LLC. We also had an increase of \$1.8 million in higher professional and consulting fees. Sales, general and administrative expenses included stock-based compensation expense of \$0.4 million and \$1.4 million during 2007 and 2008.

Other Income (Expense)

	Years Ended 2007	nded December 31, 2008 (Dollars in thousand		nge in 2008 \$
Other income (expense)		(Donars in thousand	13)	
Interest income	\$ 1,178	\$ 1,378	\$	200
Interest expense	(28)	(377)		(349)
Other income (expense), net	76	(144)		(220)
•		, ,		
Total other income (expense)	\$ 1,226	\$ 857	\$	(369)

Interest Income

Interest income increased by \$0.2 million in 2008. The increase resulted from our higher average investment balances and higher interest rates in 2008 compared to 2007.

Interest Expense

Interest expense increased by \$0.3 million in 2008 due primarily to higher outstanding principal balances on our capital leases in 2008 compared to 2007.

Other Income (Expense), Net

Other income (expense), net decreased by \$0.2 million. Other income (expense), net in 2008 included \$0.1 million expense related to the increase in the fair value of our convertible preferred stock warrants.

Liquidity and Capital Resources

	Decem	ber 31,
	2008	2009
	(Dollars in	thousands)
Working capital	\$ 32,356	\$ 51,062
Cash and cash equivalents and short-term investments	\$ 37.190	\$ 67.210

	Years	Years Ended December 31,			
	2007	2008	2009		
	(De	(Dollars in thousands)			
Net cash used in operating activities	\$ (9,526)	\$ (38,879)	\$ (45,718)		
Net cash used in investing activities	\$ (41,643)	\$ (14,660)	\$ (25,422)		
Net cash provided by financing activities	\$ 51,539	\$ 67,979	\$ 71,473		

Since our inception, we have financed our operations primarily through an aggregate of \$244.3 million from private placements of equity securities, \$19.6 million of collaborative research services revenues and \$14.4 million of equipment financing.

As of December 31, 2009, we had cash, cash equivalents and marketable securities of \$67.2 million compared to \$37.2 million as of December 31, 2008. As of December 31, 2009, we had total debt, including capital lease obligations of \$20.6 million. In addition, we had total borrowing capacity of \$2.8 million under our Credit Agreement, which we currently utilize in connection with our Amyris Fuels business. In 2010, we closed private placements of equity securities with net proceeds to us of \$51.5 million and we received an additional \$1.7 million investment in Amyris Brasil.

During the years ended December 31, 2007, 2008 and 2009, we used \$2.5 million, \$22.0 million and \$7.6 million in cash, respectively, to fund capital expenditures. We currently anticipate making aggregate capital expenditures of between 140 million Brazilian reais and 180 million Brazilian reais for the Usina São Martinho joint venture facility, of which we expect São Martinho to reimburse us for 61.8 million Brazilian reais. Of this expenditure, we expect to incur approximately 50 to 60 million Brazilian reais in 2010 (approximately \$28 million to \$34 million), approximately 80 to 110 million Brazilian reais in 2011 (approximately \$45 million to \$62 million) and approximately 10 million Brazilian reais in 2012 (approximately \$6 million). During 2010 and 2011 we expect to incur \$15 million to \$20 million in fees associated with engineering design plans that we expect to use for our joint venture and other capital light mill construction. Additionally, we anticipate making approximately \$6.0 million in capital expenditures for research and scale-up equipment and tenant improvements in 2010.

Beyond our investment in Usina São Martinho, we expect to invest capital in additional production arrangements, the timing and amount of which will depend on our business and financial outlook and the specifics of the opportunity. We may also consider additional strategic investments or acquisitions. This may require us to access additional capital through equity or debt offerings. If we are unable to access additional capital, our growth will be limited due to the inability to invest in additional production facilities.

We believe that our existing cash, cash equivalents, and short term investments, the net proceeds of this offering and funding under the two grants from the DOE will be sufficient to fund our operations and other capital expenditures for at least the next 12 months.

Credit Agreement. In November 2008, we entered into an uncommitted facility letter (the Credit Agreement) with a financial institution to secure letters of credit and to finance short term advances for the purchase of ethanol and associated margin requirements as needed. In October 2009, the agreement was amended to decrease the maximum amount that we may borrow under such facility. The Credit Agreement, as amended, provides an aggregate maximum availability up to the lower of \$20.0 million or the borrowing base as defined in the agreement. We may use this line to secure letters of credit for product purchases in an aggregate amount up to \$5.7 million. In addition, we may borrow cash for the purchase of product, which is determined by our borrowing base. As of year-end we had sufficient borrowing base levels to draw up to a total of \$2.8 million in short term cash advances and had \$4.6 million available for letters of credit in addition to those outstanding at year end. As of December 31, 2008 and 2009, we had no outstanding advances and had \$0.7 million and \$1.1 million in outstanding letters of credit under the Credit Agreement which are guaranteed by Amyris Biotechnologies, Inc. and payable on demand. The Credit Agreement is collateralized by a first priority security interest in certain of our present and future assets. (See Note 6 to the Consolidated Financial Statements).

Auction Rate Securities. Our investment portfolio includes auction rate securities (ARS), which are issued principally by student loan entities and rated AAA by a major credit rating agency. In February 2008, auctions failed for \$12.95 million in par value of ARS that we held because sell orders exceeded buy orders. During the year ended December 31, 2009, a total of \$250,000 of the ARS held by us were called at par by the issuer. As of December 31, 2009, we owned \$12.7 million par value of these securities.

In October 2008, UBS AG (UBS) offered to repurchase all of the ARS that we purchased from them. We formally accepted the settlement offer and entered into a repurchase agreement with UBS in November 2008. By accepting the agreement, we received the right (Put Option) to sell our ARS at par value to UBS between June 30, 2010, and July 2, 2012. We expect to sell the ARS under the Put Option. However, if the Put Option is

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not exercised before July 2, 2012, it will expire and UBS will have no further rights or obligation to buy the ARS. (See Note 3 to the Consolidated Financial Statements.)

Cash Flows from Operating Activities

Our primary uses of cash from operating activities are for cost of product sales and personnel-related expenditures offset by cash received from product sales. Cash used in operating activities was \$9.5 million, \$38.9 million and \$45.7 million for the years ended December 31, 2007, 2008 and 2009.

Cash used in operating activities of \$45.7 million in 2009 reflected a net loss of \$64.8 million, partially offset by aggregate non-cash charges of \$10.4 million and a net change of \$8.7 million in our net operating assets and liabilities. Non-cash charges primarily included \$5.8 million of depreciation and amortization and \$3.3 million of stock-based compensation. The net change in our operating assets and liabilities was primarily a result of our restructuring activity of \$5.1 million, the increase in accrued and other liabilities of \$4.5 million and the decrease in prepaid and other assets of \$1.0 million, partially offset by the increase in inventory of \$0.9 million and the decrease in accounts payable of \$1.0 million.

Cash used in operating activities of \$38.9 million in 2008 reflected a net loss of \$42.3 million, partially offset by aggregate non-cash charges of \$4.8 million, and net change of \$1.3 million in our net operating assets and liabilities. Non-cash charges primarily included \$2.6 million of depreciation and amortization and \$2.0 million of stock-based compensation. The net change in our operating assets and liabilities was primarily a result of the increase in prepaid expenses and other assets of \$1.9 million, the increase in inventory of \$1.4 million and the decrease in deferred revenue of \$1.4 million, partially offset by the increase in accrued and other liabilities of \$2.1 million and the increase in accounts payable of \$1.3 million.

Cash used in operating activities of \$9.5 million in 2007 reflected a net loss of \$11.8 million, partially offset by aggregate non-cash charges of \$1.8 million and a net change of \$0.4 million in our net operating assets and liabilities. Non-cash charges primarily included \$0.6 million of depreciation and amortization and \$0.5 million of stock-based compensation. The net change in our operating assets and liabilities was primarily a result of the increase in accrued and other liabilities of \$2.3 million, partially offset by the decrease in deferred revenue of \$1.9 million.

Cash Flows from Investing Activities

Our investing activities consist primarily of net investment purchases, maturities and sales and capital expenditures.

In 2009, cash used in investing activities was \$25.4 million as a result of \$16.0 million in net investment purchases and \$7.6 million of capital expenditures, and a \$1.8 million increase in restricted cash.

In 2008, cash used in investing activities was \$14.7 million as a result of \$22.0 million of capital expenditures and \$2.0 million increase in restricted cash, partially offset by \$9.3 million in net investment sales and maturities.

In 2007, cash used in investing activities was \$41.6 million as a result of \$38.4 million in net investment purchases, \$2.5 million of capital expenditures and \$0.7 million increase in restricted cash.

Cash Flows from Financing Activities

In 2009, cash provided by financing activities was \$71.5 million, primarily as a result of the net receipt of \$56.5 million from our sale of Series C convertible preferred stock, the net receipt of \$1.8 million from our sale of Series B-1 convertible preferred stock, the receipt of \$9.6 million from debt, primarily from an advance on

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student loan auction rate securities held at UBS, \$4.8 million in proceeds from equipment financing and the receipt of \$3.1 million from investors for their noncontrolling interest in Amyris Brasil, partially offset by our purchase of the noncontrolling interest in Amyris Brasil for \$2.3 million, our principal payments on our equipment financing facilities of \$1.1 million and principal repayments on our debt of \$1.0 million.

In 2008, cash provided by financing activities was \$68.0 million, primarily as a result of the receipt of \$61.4 million from our sale of Series B-1 convertible preferred stock, the receipt of \$3.7 million from our sale of Series B convertible preferred stock, the receipt of \$1.6 million from the sale of the noncontrolling interest in Amyris Brasil and \$1.2 million in proceeds from equipment financing.

In 2007, cash provided by financing activities was \$51.5 million, primarily as a result of the receipt of \$13.9 million from our sale of Series A convertible preferred stock and the receipt of \$37.6 million from our sale of Series B convertible preferred stock.

Contractual Obligations

The following is a summary of our contractual obligations as of December 31, 2009:

	Total	2010	2011 Dollars in	2012 thousands)	2013	2014 and beyond
Principal payments on long term debt	\$ 13,380	\$ 9,018	\$ 1,348	\$ 655	\$ 533	\$ 1,826
Interest payments on long-term debt, fixed rate ⁽¹⁾	1,618	442	381	251	193	351
Interest payments on long-term debt, variable rate ⁽²⁾	55	55				
Operating leases	34,747	3,161	4,021	4,669	4,328	18,568
Principal payments on capital leases	7,228	2,251	2,469	2,241	267	
Interest payments and executor costs on capital leases	1,303	710	436	153	4	
Terminal storage costs	2,059	934	805	320		
Total	\$ 60,390	\$ 16,571	\$ 9,460	\$ 8,289	\$ 5,325	\$ 20,745

- (1) For fixed rate facilities, the interest rates are more fully described in Note 6 of our consolidated financial statements.
- (2) For variable rate facilities, amounts are based on weighted average interest rate which was 1.32% as of December 31, 2009.

Amyris Brasil S.A. Transactions

Between December 2009 and April 2010, we entered into agreements with certain investors to sell a noncontrolling equity interest in Amyris Brasil S.A. (See Notes 16 and 19 to our Consolidated Financial Statements included elsewhere in this prospectus for a description of these transactions.) Under the terms of these agreements, we have the right to require the investors to convert their shares of Amyris Brasil into shares of our common stock. We intend to exercise this right prior to the completion of this offering, and as a result we will issue 550,044 shares of our common stock to these investors.

Off-Balance Sheet Arrangements

We did not have during the periods presented, and we do not currently have, any off-balance sheet arrangements, as defined under SEC rules, such as relationships with unconsolidated entities or financial partnerships, which are often referred to as structured finance or special purpose entities, established for the purpose of facilitating financing transactions that are not required to be reflected on our consolidated balance sheets.

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Quantitative and Qualitative Disclosures about Market Risk

We are exposed to financial market risks, primarily changes in interest rates, currency exchange rates and commodity prices. On a limited basis we use derivative financial instruments primarily to manage commodity price risk. All of the potential changes noted below are based on sensitivity analyses performed on our financial positions as of December 31, 2009. Actual results may differ materially.

Interest Rate Risk

Our exposure to market risk for changes in interest rates relates primarily to our investment portfolio and our outstanding debt obligations. We generally invest our cash in investments with short maturities or with frequent interest reset terms. Accordingly, our interest income fluctuates with short-term market conditions. As of December 31, 2009, our investment portfolio consisted primarily of money market funds, government bonds and notes and ARS. With the exception of our ARS, these were highly liquid investments. Due to the short-term nature of our investment portfolio, our exposure to interest rate risk is minimal.

Interest rate risk is present with both fixed- and variable-rate debt. As of December 31, 2009, approximately 60 percent of our debt portfolio was comprised of variable-rate debt and 40 percent was fixed-rate debt. If interest rates had increased by 100 basis points related to the outstanding amounts as of December 31, 2009, our interest expense would have changed by \$42,000 on an annual basis.

Foreign Currency Risk

Most of our sales contracts are principally denominated in U.S. dollars and, therefore, our revenues are not currently subject to significant foreign currency risk. We do incur certain operating expenses in currencies other than the U.S. dollar in relation to Amyris Brasil and, therefore, are subject to volatility in cash flows due to fluctuations in foreign currency exchange rates, particularly changes in the Brazilian reais. To date, we have not entered into any hedging contracts since exchange rate fluctuations have had minimal impact on our results of operations and cash flows.

Commodity Price Risk

Our exposure to market risk for changes in commodity prices currently relates primarily to our purchases of ethanol. When possible, we manage our exposure to this risk primarily through the use of supplier pricing agreements. We also, at times, use standard derivative commodity instruments to hedge the price volatility of ethanol, principally through ethanol futures contracts. The changes in fair value of these contracts are recorded on the balance sheet and recognized immediately in cost of product sales. We recognized (losses) gains of \$0, \$752,000 and (\$1,910,000) as the change in fair value for the years ended December 31, 2007, 2008 and 2009, respectively. (See Note 3 to the Consolidated Financial Statements).

Recent Accounting Pronouncements

In June 2009, the FASB issued a new accounting standard that requires a qualitative approach to identifying a controlling financial interest in a variable interest entity (VIE), and requires ongoing assessment of whether an interest in a VIE makes the holder the primary beneficiary of the VIE. The new accounting standard became effective for us on January 1, 2010. We are evaluating the impact of the pending adoption on our consolidated financial statements.

In October 2009, the FASB issued a new accounting standard that changes the accounting for arrangements with multiple deliverables. Specifically, the new accounting standard requires an entity to allocate arrangement consideration at the inception of an arrangement to all of its deliverables based on their relative selling prices. In addition, the new standard eliminates the use of the residual method of allocation and requires the relative-

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selling-price method in all circumstances in which an entity recognizes revenue for an arrangement with multiple deliverables. In October 2009, the FASB also issued new accounting standard that changes revenue recognition for tangible products containing software and hardware elements. Specifically, if certain requirements are met, revenue arrangements that contain tangible products with software elements that are essential to the functionality of the products are scoped out of the existing software revenue recognition accounting guidance and will be accounted for under these new accounting standards. Both standards will be effective for us in the first quarter of 2011. Early adoption is permitted. We are currently assessing the impact that the adoption of these standards will have on our consolidated financial statements.

In January 2010, the FASB issued an amendment to an accounting standard which requires new disclosures for fair value measures and provides clarification for existing disclosure requirements. Specifically, this amendment requires an entity to disclose separately the amounts of significant transfers in and out of Level 1 and Level 2 fair value measurements and to describe the reasons for the transfers; and to disclose separately information about purchases, sales, issuances and settlements in the reconciliation for fair value measurements using significant unobservable inputs, or Level 3 inputs. This amendment clarifies existing disclosure requirements for the level of disaggregation used for classes of assets and liabilities measured at fair value and requires disclosure about the valuation techniques and inputs used to measure fair value for both recurring and nonrecurring fair value measurements using Level 2 and Level 3 inputs. The adoption of this amendment will not impact the Company s consolidated financial statements.

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BUSINESS

Business Overview

Our Company

We are building an integrated renewable products company by applying our industrial synthetic biology platform to provide alternatives to select petroleum-sourced products used in specialty chemical and transportation fuel markets worldwide. We genetically modify microorganisms, primarily yeast, and use them as living factories in established fermentation processes to convert plant-sourced sugars into potentially thousands of target molecules. Our first commercialization efforts have been focused on a molecule called farnesene, which forms the basis for a wide range of products varying from specialty chemical applications such as detergents, cosmetics, perfumes, and industrial lubricants, to transportation fuels such as diesel. We call these No Compromise products because we design them to perform comparably to or better than currently available products. While our platform is able to utilize a wide variety of feedstocks, we have focused our initial research and development, business development and production operations on the use of Brazilian sugarcane as our primary feedstock, because it is abundant, low cost and relatively price stable. We intend to secure access to this feedstock and expand our production capacity in a capital light manner. Under this approach, we expect to work with Brazilian sugar and ethanol producers to build new, bolt-on facilities adjacent to their existing mills instead of building new greenfield facilities, thereby reducing the capital required to establish and scale our production. Our first such arrangement is our joint venture with Usina São Martinho, a subsidiary of São Martinho S.A., one of the largest sugar and ethanol producers in Brazil.

Technology

We have developed genetic engineering and screening technologies which enable us to modify the way microbes process sugar. By controlling these metabolic pathways, we design microbes to serve as living factories, or biorefineries, to produce target molecules that we seek to commercialize. Our platform utilizes proprietary high-throughput processes to create and test as many as 1,000 yeast strains a day in order to select those yeast strains which are most efficient. We first developed and applied our technology to create microbial strains that produce artemisinic acid, a precursor of artemisinin, an anti-malarial therapeutic. We have granted a royalty-free license to this technology to sanofi-aventis for the commercialization of artemisinin-based drugs.

Feedstock

We are focusing on Brazilian sugarcane as our primary feedstock given its abundance, low cost and relative price stability. Brazil is the world s largest producer of sugarcane, crushing over 600 million tons of sugarcane annually to provide feedstock to approximately 400 sugar and ethanol mills. According to UNICA, the Brazilian Sugarcane Industry Association, sugarcane is the lowest cost feedstock to produce renewable products at scale and using it enables us to leverage the established Brazilian infrastructure. Common to both our process and the sugarcane-to-ethanol process is the use of fermentation, a well-established process that combines a sugar source and yeast to produce beer and wine and, more recently, ethanol fuels. We plan to establish production capacity by partnering with sugar and ethanol producers, and then taking as input the same sugar source that is routinely processed by these mills and directing it to customized fermentors, where it would be combined with our genetically engineered yeast.

Scale-Up

We operate research and development laboratories in Emeryville, California, and have built an adjacent pilot facility that tests our yeast strains in 300 liter scale fermentors. We have an identical pilot plant in Campinas, Brazil, to facilitate the adaptation of our technology to the Brazilian production environment. We established a 5,000 liter demonstration facility in Brazil in September 2009 to further validate our processes and equipment as we move toward commercialization of our products. We have also completed production runs using our strains to produce farnesene at a contract manufacturing facility in a 60,000 liter fermentor in the U.S.

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Commercial Production

We expect to access feedstock and scale our production through our capital light strategy. Our first such arrangement is our joint venture with Usina São Martinho, SMA Industrio Quimico S.A. This facility is located at Usina São Martinho, the world s largest sugarcane processing facility, which crushed 8.1 million tons of sugarcane in the 2009/2010 harvest. We have also provided Usina São Martinho with an option to produce our products at a second production facility. We have non-binding letters of intent in place with three leading Brazilian sugar and ethanol producers, Bunge Limited, Cosan and Açúcar Guarani, a subsidiary of Tereos, to build new, bolt-on facilities adjacent to specified existing mills to produce our products. We expect that these mill owners will make a substantial contribution of capital or operating contribution to fund these facilities in return for a share of the higher gross margin we believe we will realize from the sale of our renewable products. In addition, we expect these arrangements to provide us with access to over ten million tons of sugarcane crush capacity annually, which we intend to expand over time with these and other mills. This capacity represents approximately 9.8% of the total crush capacity of these producers.

Products and Distribution

As we commence commercial production of our initial molecule, farnesene, we expect to target specialty chemical markets. Further, we are seeking to improve our strain performance to expand our addressable markets, including additional chemical applications and renewable diesel. For most specialty chemical applications, we intend to sell directly to industrial customers. For distribution of our fuel products in the U.S., we expect to sell directly, primarily to corporations with large trucking fleets. For distribution of our fuel products in other geographies, we expect to sell indirectly through third parties. To build the capabilities we will need to import and distribute our products into the U.S., we have established our subsidiary Amyris Fuels, LLC. Amyris Fuels currently generates revenues through the sale of ethanol to wholesale customers through a network of terminals in the southeastern U.S.

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Industry Background

Petroleum is a fundamental building block for products, such as consumer products, chemicals, plastics, and transportation fuels, that are essential to modern economies. According to EIA, in 2008 the total worldwide demand for petroleum was over \$3 trillion, or 5% of worldwide gross domestic product. The graphic below outlines some of the markets that currently rely on petroleum as a precursor:

Historically, the abundance of petroleum has made it a convenient and inexpensive source of many chemicals and transportation fuels. Recently, however, changes in the economics of petroleum production and consumer preferences have created challenges for the current infrastructure, such as:

Increased demand for petroleum but limited supply. Petroleum is a finite resource, and locating and extracting new petroleum resources is becoming more challenging and expensive. At the same time, population growth, economic development and urbanization in emerging countries such as Brazil, Russia, India and China are significantly increasing the demand for petroleum.

Volatility of petroleum prices. Petroleum prices are highly volatile, which reduces petroleum s attractiveness as a building block for products. For instance, the price per barrel of petroleum ranged from \$145.66 in July 2008 to \$30.81 in December 2008. This variability adds a level of price uncertainty to providers and customers of goods that rely on petroleum.

Supply chain uncertainty and inconsistency. Secure and stable access to petroleum is increasingly threatened by a variety of factors, including the political instability of several large oil producing countries, competition over energy sources and attacks on supply infrastructure, as well as accidents and natural disasters. Concerns with dependence on current petroleum producing countries are spurring private and public initiatives to reduce petroleum use and develop effective alternatives.

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Negative environmental impact and changing consumer sentiment. The production of petroleum and its use as a fossil fuel create emissions that are harmful to the environment. This has led to changes in consumer attitudes towards consumption and raised the likelihood of regulatory frameworks that will continue to challenge the economics of petroleum-based products.

To address the foregoing challenges, countries have taken various actions to promote environmentally-friendly alternatives to petroleum. The U.S. Energy Policy Act of 2005 mandated that 7.5 billion gallons of renewable fuels be produced in the U.S. by 2012 as part of the Renewable Fuels Standard (RFS). The RFS was amended by the Energy Independence and Security Act of 2007, which calls for 36 billion gallons of renewable fuels including 21 billion gallons from cellulosic ethanol and other advanced biofuels by 2022. According to EIA, this is approximately 11% of the 2022 forecast for total U.S. petroleum demand. Similar mandates have been enacted in Europe, where the Renewable Energy Directive calls for 20% of energy to come from renewable sources by 2020. These and other policies, such as tariffs on petroleum inputs and subsidies for renewable energy research, provide meaningful incentives for the development and acceptance of alternative sources for petroleum and petroleum derivatives.

Petroleum Alternatives

There have been many attempts to create equivalent products to petroleum-based products that avoid the difficulties listed above. However, these initial approaches have faced challenges that have limited, or may limit, their success:

Exposure to volatile feedstock pricing. Many U.S. renewable fuels companies have focused on the conversion of commodity feedstocks, such as corn or vegetable oil, into ethanol or biodiesel. These companies were exposed to potential swings in the market prices for their feedstocks. According to The World Bank, the price of maize rose over 60% from 2005 to 2007, due largely to the U.S. ethanol program combined with reduced stocks in major exporting countries. In addition to significantly impacting food prices and availability, such increases reduced or eliminated the profitability of these businesses, and at various times have made production unprofitable for a number of producers in these industries.

Limited product portfolio. Companies engaging in early attempts to create renewable fuels typically focused on one end product, such as ethanol or biodiesel. These companies generally lacked product diversity and therefore were vulnerable to variability of market prices and the degree of government support for their primary products. Further, these companies products were imperfect substitutes for the transportation fuels they were intended to replace. For example, neither ethanol nor biodiesel can be transported in conventional petroleum pipelines or stored in blended form with petroleum-sourced fuels for any significant time due to their corrosive and viscous properties. In addition, ethanol has a lower energy content than petroleum-sourced fuels, resulting in reduced fuel economy. In many countries, ethanol and biodiesel can be blended with petroleum-based fuels only in limited quantities without requiring engine modifications or risking invalidation of engine or vehicle warranties. In the U.S., current blend limits set by the EPA restrict ethanol blending to 10% or less of gasoline.

Capital intensity. Many initial U.S. ethanol companies utilized a business model that included the construction and ownership of mills to control their production process. A new ethanol mill requires capital outlays of hundreds of millions of dollars. Given these significant capital outlays, ethanol producers were limited in their ability to opportunistically and rapidly enter new geographies with access to new feedstock, as they were tied to their existing facilities and construction plans.

Dependence on policy. The economic viability of many alternative fuel and energy resources is based on government regulations and support. For instance, corn based ethanol and biodiesel are both heavily dependent on government subsidies to blenders and refineries. For example, in response to the U.S. Senate s delay in extending a biodiesel tax credit beyond its expiration in December 2009, many biodiesel producers laid off workers and suspended operations until the extension was approved in March 2010.

As a result of these challenges, many corn ethanol and biodiesel solutions have not been successful. Other efforts to develop alternatives to petroleum-sourced products include the use of non-food-based feedstocks, such as cellulosic sugars sourced from wood chips, corn stalks and sugarcane bagasse. Some of these approaches have shown promise and may not be influenced by commodity markets and food versus fuel concerns. However, they are not complete solutions to the challenges above, and to date, these approaches have been limited by cost and technical considerations, among others.

The Amyris Solution

We are building an integrated renewable products company by applying our industrial synthetic biology platform to provide alternatives to select petroleum-based products used in specialty chemical and transportation fuel markets worldwide. Our proprietary technology enables us to engineer microbes, such as yeast, to produce target molecules, and our business model is designed to produce these products and bring them to market in a capital light manner. Our technology platform is designed to produce competitive products from widely available plant-derived feedstocks, using genetically modified yeast strains in a well-established fermentation process. We are focusing our initial production efforts in Brazil, positioning us to access abundant, low-cost and relatively price stable sugarcane feedstock sources and to leverage the substantial infrastructure of existing sugar and ethanol mills.

Competitive Strengths

Our key competitive strengths are:

Abundant, low-cost and relatively price stable feedstock. The Brazilian sugarcane industry enjoys a low production cost structure and is insulated from feedstock price volatility. The sugar and ethanol industries are vertically integrated with most mills growing much or all of their own sugarcane. Hence, they are generally exposed only to these agricultural production costs, rather than the market price of a volatile, traded commodity feedstock. Even when cane is procured from third-party growers the contract price is a formula derived from the selling price of the resultant sugar or ethanol production, insulating the mill from any substantial disconnect between its feedstock price and ultimate product selling price. Furthermore, Brazilian sugarcane does not compete for use as a food source. According to the U.S. Department of Agriculture, roughly 50% of Brazilian sugarcane is used for sugar production, and the production of cane is expected to substantially increase over the next 10 years.

Broad range of potential products. Our technology platform gives us the ability to produce potentially thousands of target molecules. This capability enables us to focus on the development of promising, high-value products, optimizing our overall mix of products and mitigating our exposure to any one end market. Our farnesene molecule, on which we are initially focusing, forms the basis for a wide range of chemical and fuels applications.

Scalable, capital light approach. We are developing production capacity by entering into agreements with sugar and ethanol producers to build new, bolt-on facilities adjacent to their existing mills to produce our products at a lower cost than the cost of building a new greenfield facility, under which they will make a substantial capital or operating contribution in return for a share in the higher gross margin that we believe we will realize from the sale of our products. With approximately 400 sugar and ethanol mills operating in Brazil, we believe that this capital light model will allow us to take advantage of the large infrastructure that is already in place.

Not policy dependent. We do not intend to rely on subsidies, mandates or tariffs to make our products commercially viable. While we benefit from policies such as the Renewable Fuels Standard that encourage the use of renewable

products, and while we will seek to access incentives available for the production of our products, we expect our products to be offered on a cost-competitive basis with existing products without reliance on subsidies.

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Our Solution for our Customers

The key benefits we intend to provide to our customers include:

No Compromise product offerings. We refer to our products as No Compromise because we design them to perform comparably to or better than currently available products. For example, in initial testing our squalane, a natural emollient used in high-end cosmetics, has exhibited characteristics comparable to currently available squalane. In addition, our diesel will not require engine or distribution infrastructure modifications, will have better performance at low temperatures and generally will have a higher cetane number than biodiesel.

Greater pricing stability. We expect that our use of Brazilian sugarcane will make our products less susceptible to price volatility than petroleum-sourced, corn-based ethanol and biodiesel products. Our yeast strains are designed to utilize a wide variety of feedstocks, which will allow us to seek other low-cost sugar sources for our process over time. We believe that this will help protect our customers from the level of volatility generally associated with exposure to petroleum and other commodities.

Green alternative. Our products are derived from renewable sources, enabling our customers to reduce the environmental impact of their products. For example, we believe we can provide our prospective customers in the specialty chemical market with a competitive advantage by offering greener products than those that are based on petroleum. We also believe that our diesel offers a number of environmental benefits, including the elimination of sulfur and greatly reduced nitrogen oxides, particulate matter, carbon monoxide and hydrocarbon exhaust emissions.

Our Value Proposition to Sugar and Ethanol Producers

The key benefits we intend to provide to sugar and ethanol producers that will work with us to produce our products include:

Product diversification. By producing our products, sugar and ethanol mills would be able to diversify their business beyond their current sugar or ethanol production and potentially mitigate volatility in their financial performance caused by changes in the market prices for sugar or ethanol.

Opportunity for growth. By diversifying their product base to address expanded market opportunities, producers may be able to expand the amount of sugarcane grown and processed at their mills.

Potential for improved margins. We intend to offer these producers a share of the higher gross margin we believe we will realize from the sale of our renewable products relative to their existing products, potentially improving their gross margins and the return they realize on their feedstock.

Our Strategy

Our objective is to become the leading provider of renewable specialty chemicals and transportation fuels worldwide. These specialty chemical and transportation fuels markets are some of the largest addressable markets in the world, aggregating to well above \$1 trillion annually.

However, for decades there has been little success in developing alternatives to the petroleum-sourced products that serve these markets. We believe this to be the case because incumbents have significant advantages in the form of established production processes, access to historically low cost and plentiful petroleum feedstock and significant financial resources, which together form high barriers to entry. As a result, we believe that in order for a new company to offer products that effectively compete with petroleum-based products for these end markets, it is important to build a company that can fundamentally innovate and differentiate to achieve a long-term sustainable competitive advantage.

Since inception we focused our company on achieving a sustainable competitive advantage by abiding by three strategic principles. First, we select target markets where we can deliver products that perform comparably to existing offerings on a cost-competitive basis. Second, we will continue to advance our technology such that we can

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scale our business using a wide variety of feedstocks in a capital light fashion. Finally, we intend to participate in the distribution and sale of our products, either directly or with partners, to maximize the value we can capture from sales of our products. By selectively participating in the supply chain for each of our end markets, we intend to position our company to capture the greatest value across each end market.

Activities that we are pursuing to support these elements of our strategy include:

Pursuing market opportunities that maximize our returns. We expect to be able to produce numerous specialty chemicals as well as renewable diesel from our farnesene molecule and other molecules that we can produce. We intend to expand our chemistry capabilities in order to expand market applications and support customer adoption of our products. We are currently in active discussions with various consumer products and oil companies for their purchase of our products. We will focus our initial sales and marketing efforts on a small number of high value applications for which there exists an attractive business case for our products. As we further lower our production costs and increase our production capacity, we believe our ability to address a wide range of target markets will provide us with significant flexibility in adjusting product mix in order to maximize our returns. We also intend to enter into collaborative research, development and commercialization agreements to accelerate our entry into select new product opportunities.

Leveraging our technology platform to improve efficiency. We intend to continually leverage our technology platform to lower the cost of production of our products through continued strain improvement and gains in other production process efficiencies. For example, since we first engineered a yeast strain capable of producing farnesene in 2006, we have substantially increased our yield and have achieved a 15% yield at two liter scale which we believe, if replicated at commercial production scale, will enable us to enter certain specialty chemical markets. We intend to further develop our strains to enable us to address transportation fuels markets.

Focusing on Brazilian sugarcane. We are focusing on Brazilian sugarcane as our primary feedstock given its abundance, low cost and relative price stability. We formed Amyris Brasil in March 2008 to establish local visibility to enhance our ability to access sugarcane. We have entered into non-binding letters of intent for production relationships with three sugar and ethanol producers in Brazil, Bunge Limited, Cosan and Açúcar Guarani. If successfully consummated, we believe these production relationships, together with the Usina São Martinho mill, would provide us with access to over ten million tons of annual crushing capacity. We will continue to develop relationships to secure additional feedstock sources.

Advancing capital light production. We expect to partner with existing sugar and ethanol mills to establish and scale production at a lower cost than the cost of greenfield mill construction. While we are constructing our first capital light facility in Brazil, our joint venture with Usina São Martinho, we expect to initiate commercial production starting in 2011 through the use of contract manufacturing. We then expect to begin to operate the joint venture facility starting in the second quarter of 2012. We also intend to build engineering services capabilities to support sugar and ethanol mill adoption of our technology.

Continuing to develop our fuels distribution network. We will continue to invest in our Amyris Fuels distribution network, expanding our footprint in the U.S. We believe this strategy builds capabilities for future distribution and sales of our renewable products in the U.S. We will seek to establish arrangements with large oil companies for distribution of our renewable fuels in other countries.

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Technology

We believe that our technology enables us to genetically engineer microorganisms that will perform as effectively in commercial manufacturing conditions as they perform in the laboratory. We accomplish this by maintaining a constant feedback loop between our laboratory, where strains are initially created and modified, and our two pilot plants, where we expose those strains to conditions that simulate a commercial production environment. This allows us to focus our microbe development resources on those strains that demonstrate the potential to scale effectively. The key components of our industrial synthetic biology platform are strain engineering, process development and scale-up and chemical finishing.

Strain Engineering

The process by which a living organism converts sugar to molecules is comprised of many individual steps that together form a pathway. We focus on engineering microorganisms to build pathways that are specifically designed to produce target molecules for which we believe there may be significant market opportunities. The primary biological pathway within the microbe that we currently use to produce our target molecules is the isoprenoid pathway. Isoprenoids constitute a large, diverse class of molecules with current product applications in a wide range of industries, including specialty chemicals and fuels. The microorganisms we currently use are strains of yeast, although we have demonstrated that our technology can be applied in *E. coli* bacteria and we believe it can also be used in other microbes.

The following chart illustrates the use of our engineered yeast cells to produce target molecules in a variety of applications:

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The key steps in our strain engineering process are:

Identifying target molecules. We start our process by identifying the commercial application that we want to pursue. We identify the key molecular properties that are essential to product performance in a specific commercial application and then analyze the chemical structures that drive those key performance characteristics. Finally, we identify target molecules or simple derivatives of molecules that are comprised of these key chemical structures and that may be produced by our yeast strains.

Developing initial strains. Once we have chosen a target molecule, we identify the steps required for its production in a biological pathway. We then seek to design a pathway to produce the target, either directly or by producing a molecule that can, through simple chemical steps, be synthesized, or converted, into the target. Once this pathway is identified, we undertake to engineer it into our yeast strains by employing the processes discussed below.

Improving strain performance to achieve commercial viability. After we have established a pathway and verified that it can produce the target molecule, the yeast strain must be improved to increase the level of efficiency of production. The two key measures of yeast strain efficiency are yield and productivity. Our focus to date has been on maximizing yield, which is the measurement of the amount of a specified molecule that is produced by our yeast from a given amount of sugar. Yield is measured both at laboratory scale, where production occurs in a controlled environment with highly uniform feedstock, and at commercial scale where products are produced on-site using commercially available feedstock, such as sugarcane juice. Yield is expressed as a percentage, with, for example, a yield of 10% indicating that of one gram of product is produced from ten grams of sugar input. Yeast strain productivity represents the rate at which our product is produced by a given yeast strain. The higher productivity a strain has, the more product can be produced in the same size fermentor in a given period of time.

We seek to achieve yield gains primarily by means of two different scientific approaches random mutagenesis and rational design. In random mutagenesis, a mutagen, such as ultraviolet light, is applied to a strain that already produces some amount of a target molecule. The goal is to mutagenize, or genetically change, the strain so it will produce a greater amount of that target molecule. In order to identify strains that are more productive than the parent, or starting strain, large numbers of mutagenized strains must be screened. We have developed assays for screening tens of thousands of strains per week, and we frequently evolve the assays we use for this rapid, or high-throughput, analysis of production.

We augment our efforts to identify improved yeast strains via random mutagenesis by employing a process we refer to as rational design, in which we specifically design strains to achieve a desired effect. Through the use of techniques like genomics, which is the analysis of nucleic acids within the cell, metabolomics, which is the analysis of reaction intermediates inside the cell, and proteomics, which is the analysis of enzymes inside the cell, we can identify potential bottlenecks in the flow of the sugar feedstock to the target molecules. We can then explore solutions to those bottlenecks and test them by making targeted, or rational, genetic changes to the pathway. In order to increase the efficiency of these rational design efforts, we have developed and implemented a series of automated processes:

Rapid strain engineering. This is a method of engineering strains in which we break the strain engineering process into a series of modular steps, which allows for more rapid construction of strains than do conventional methods.

Automated strain engineering. We are able to take the strain engineering processes normally undertaken by people and implement them on standard molecular biology and liquid handling robotics equipment.

High-throughput assays. We implement the previous two steps in conjunction with the same high-throughput assays used to screen mutagenized strains in order to identify those strains with improved production capabilities.

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Our two primary strain engineering approaches, random mutagenesis and rational design, also intersect in a way that enables us to leverage both. In addition to using random mutagenesis to generate strains, we also use it to identify hypotheses about further improvements that can be implemented through rational design techniques. By comparing the DNA sequence of a newly identified, improved microorganism to the DNA sequence of its parent strain, we can identify the specific mutations in the improved strain that we believe led to the improvements, and then rationally design them into other strains. Additionally, we can use these identified mutations to generate new hypotheses for rational design.

Our progress to date with farnesene demonstrates results obtained from the application of our technology platform. After identifying farnesene as a molecule with commercial potential, we developed a farnesene producing yeast strain and began to apply our strain improvement processes. We increased the peak yield for farnesene from approximately 6% to 15% in 2009 at the two liter laboratory scale.

We have selectively transitioned from our laboratories to our pilot plants several strains that we believe have the potential to scale effectively. In doing so, we have demonstrated the ability of certain strains to achieve farnesene yields at the 300 liter pilot scale that are comparable to those achieved at the two liter laboratory scale. Similarly, we have selectively transitioned two of these strains to the 5,000 liter demonstration scale, and these strains have demonstrated yields comparable to those achieved at the two liter and 300 liter scales. We plan to continue to transition our most promising strains to demonstration scale, with the goal of achieving no, or minimal, drop-off in yield levels.

The two graphs below show, on the left, our progress in improving farnesene yield at laboratory scale with our increasingly productive yeast strains over the course of 2009 and, on the right, the yields obtained at each of the two liter and 300 liter scales in Emeryville for three of our strains and also at the 300 liter and 5,000 liter scales in Campinas for the two strains that have been further tested there.

We believe that we will be able to enter certain specialty chemical markets with farnesene if we can attain at commercial production scale the 15% yield that we have achieved at two liter scale. Based on our success in matching at the 5,000 liter scale the yields achieved by earlier generation strains at the two liter and 300 liter scales, we believe we can achieve the 15% yield at commercial scale, although we cannot be assured that we will do so until we have fully transitioned to that scale. In order to enter substantially larger markets such as those for diesel and certain specialty chemical products, we must achieve substantially higher farnesene yields than we have achieved to date. We may never achieve the yields needed to address these larger markets.

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Process Development and Scale-up

The basis of our production process is a well established fermentation process that uses our genetically engineered yeast strains to convert the sugar source into target molecules like farnesene. We employ a multi-stage scale-up approach, to progress from laboratory scale to commercial production scale. This approach is depicted in the diagram below.

Laboratory scale. This first stage of scale-up evaluates the performance of promising new strains in a fermentation process under conditions approximating our pilot plant conditions. A limited number of strains are selected for further scale-up, and the fermentation process is further optimized to improve performance of each selected strain.

U.S. pilot plant. Our 300 liter U.S. pilot plant is located in Emeryville, California, adjacent to our laboratories. At this facility, we develop and test complete production processes that will eventually form the basis of processes used for commercial production. The activities we conduct at this pilot plant include feedstock preparation, fermentation runs and product separation. At the Emeryville pilot plant, we use commercially available sucrose as the feedstock.

Brazil pilot plant. We have a second 300 liter pilot plant located in Campinas, Brazil, which is substantially identical to our pilot plant in Emeryville. Using an identical design and process between the Emeryville and Campinas pilot plants allows us to replicate our processes while incorporating Brazilian sugarcane as our feedstock.

Brazil demonstration plant. In addition to our two pilot facilities, we have a demonstration facility in Campinas, Brazil, which contains two 5,000 liter fermentors. Here, the production process we developed at the 300 liter scale is further adapted to perform at the 5,000 liter scale, allowing for additional validation of production processes and equipment as we move toward full scale commercial

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production. This facility will provide technology support for development and continuous improvement of our commercial facilities.

Contract manufacturing. We have also run certain of our strains for farnesene production at contract manufacturing facilities in 60,000 liter fermentors. Thus far, the primary purpose of these operations has been the production of sufficient volumes for product testing. To date, we have produced approximately 50 barrels (or approximately 10,000 liters) of our renewable diesel for testing and certification purposes. However, production at this scale also serves as an indication of the performance of our strains at scales that are larger than that of our demonstration plant, and we anticipate using contract manufacturers for this purpose in the future. We intend to use larger fermentors on a contract manufacturing basis to initiate commercial production and in the future as needed to meet demand.

Chemical Finishing Steps

Although our product development process starts with identification and development of a target molecule for a specific product application, we also enhance the value of our biologically-derived molecules by finding multiple uses for them. In certain cases, the biologically-derived molecule will itself be the end product and in others it serves as an intermediary molecule that can then be converted into other products by means of simple chemistry steps such as hydrogenation and polymerization. For example, our diesel molecule farnesane is derived by hydrogenating the biologically derived farnesene. However, farnesene can also be converted into other applications such as lubricants, surfactants and squalane by one or more other simple chemistry steps.

Production

Commercial Production

We expect to initiate commercial production through the use of contract manufacturing as we complete our facility at our planned joint venture facility with Usina São Martinho. Following completion of the facility, we will seek to expand our production capacity by entering into agreements with owners of additional sugar and ethanol mills in Brazil. We may also use alternative production resources in other geographies. We anticipate that for many applications chemical finishing processes will be applied to the molecules that we produce in order to create desired products.

We are currently developing the engineering designs and technical capabilities to build out facilities at existing sugar and ethanol mills to produce our products. Because the bulk of our production process leverages the same equipment and process steps used to produce ethanol, we will be able to utilize much of the existing infrastructure. We expect this capital light approach will allow us to scale production at a lower cost than the cost of greenfield mill construction. The mill operator will retain the ability to direct the crushed sugarcane to produce either their current products or our products.

The manner in which we intend to develop our manufacturing capacity is as follows:

Contract manufacturing. To date, we have used contract manufacturing facilities to produce quantities of farnesene needed for certification and fleet testing. We are currently seeking to enter relationships with additional contract manufacturers that will enable us to commercialize our products beginning in 2011. In addition, we may use contract manufacturing to supplement our production capacity as new facilities are coming

online and as otherwise needed to help us meet demand for our products.

First production in Brazil through joint venture with Usina São Martinho. We have formed a joint venture with Usina São Martinho, a subsidiary of a leading sugar and ethanol company in Brazil, São Martinho S.A., to establish our first commercial-scale production facility at Usina São Martinho, located in São Paulo state, Brazil, which crushed 8.1 million tons of sugarcane in the 2009/2010 harvest season. We expect that production of our products will commence at the facility in the second quarter of 2012.

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Increasing production in Brazil through arrangements with sugar and ethanol mill owners. We anticipate increasing our commercial production through arrangements with other ethanol and sugar producers in Brazil. We have entered into non-binding letters of intent for production relationships with three sugar and ethanol producers in Brazil, Bunge Limited, Cosan and Açúcar Guarani. If successfully consummated, we believe these production relationships together with the Usina São Martinho mill would provide us with access to over ten million tons of annual crushing capacity, which we expect to expand over time with these and other mills. This capacity represents approximately 9.8% of the total crush capacity of these producers.

Alternative geographies for production. Although we have identified the use of new bolt-on facilities adjacent to existing sugar and ethanol mills in Brazil as the optimal source for our primary production efforts, we may use facilities in alternative geographies for certain products. We are also exploring production options in the U.S. Through our Integrated Biorefinery Grant from the DOE, which we were awarded in early April 2010, we are evaluating the potential for the production of our renewable products from sweet sorghum grown in Florida, Louisiana, Alabama, Texas and Hawaii.

Chemical finishing steps. For each product requiring additional chemical finishing steps, we will evaluate the optimal geographies and facilities for the completion of these steps. These chemical finishing steps may be performed either by our customers or outsourced by us.

Cost of Production

The primary focus of our research and development efforts at this time is on the refinement of our production processes, particularly the yield level of our farnesene strains, so that we are able to produce our products economically at commercial scale. Other important measures of production efficiency include yeast strain productivity, separation efficiency and chemical process efficiency. Productivity represents the rate at which our product is produced by a given yeast strain. The higher productivity a strain has, the more product can be produced in the same size fermentor in a given period of time. Separation yield refers to the amount of desired product produced in the fermentation process that we are able to extract and the time that it takes to do so. Chemical process efficiency refers to the cost and yield for the chemical finishing steps that convert our target molecule into a desired product.

Our Products

We are focused on bringing a broad range of products to market, including specialty chemicals and renewable transportation fuels. Our current product development efforts focus on the development and production of a limited number of chemical products and on diesel as our initial transportation fuel. Over time we plan to develop additional chemical and fuel products, and have already begun initial product development and testing efforts with regard to several of these products.

For the foreseeable future, the products that we develop will seek to replace petroleum-sourced, or other biological or chemical-derived, components of existing consumer and commercial products in target markets. Our No Compromise commitment is based on the premise that while our customers will value products made from renewable resources, each product must be economically viable and competitive in terms of product quality relative to the existing product that it is seeking to replace. We believe that this philosophy of targeting existing attractive markets with a green alternative that is cost-competitive with the current product components and provides comparable or better performance will position our products to achieve acceptance as they become available.

A common characteristic of many of the products on which we are initially concentrating is that they are derived from farnesene, which is a 15-carbon molecule produced in our fermentation process. We have the ability to perform finishing processes to chemically convert farnesene into a variety of products, providing significant end market flexibility to our process. Since we first produced farnesene in a microbial system we have been concentrating on decreasing the production costs primarily by increasing the yield. We believe that we will

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be able to enter certain specialty chemical markets with farnesene if we can attain at commercial production scale the 15% yield that we have achieved at two liter scale. Our ability to enter other specialty chemical markets and the diesel market will depend on our continuing to reduce the production cost of the farnesene molecule.

Chemical Products

Our first commercialization efforts have been focused on the molecule farnesene, which forms the basis for a wide range of products varying from specialty chemical applications such as emollients, flavors and fragrances, surfactants for various consumer and commercial purposes, isoprene, industrial and automotive oils and lubricants. We continue to seek to identify additional uses of farnesene and to select those uses that enhance our ability to optimize the return on our technology and our production capacity.

In addition to farnesene-derived chemicals, we are seeking to develop additional chemical products through modifications to our engineered yeast strains to produce different molecules. These include flavors and fragrances chemicals, such as patchouli oil and sandalwood oil, used widely in perfumery and household products. We are also investigating the production of molecules such as isoprene, which is used extensively for the production of tires, among other uses.

While we currently expect to initially pursue the markets described above in the order that we have indicated, we may slow or accelerate the development of one or more of our products based on a variety of factors. Among these will be our ability to continue to lower the production costs of our products. Other contributing factors may include our ability to complete product qualification processes required by our customers and to satisfy any applicable regulatory requirements. We may also elect to change or redirect the pace of development of our chemical products as we continue to evaluate opportunities available to us in the chemical and fuels markets.

Transportation Fuels

We have selected diesel as our primary area of focus within the transportation fuels market because of its projected global demand growth, the lack of a scalable, competitive renewable product and our belief that our fuel product has properties superior to those of existing renewable alternatives. Testing to date indicates that our diesel will not require engine or distribution infrastructure modifications. An independent third party that we engaged has tested our fuel and determined that it performs as well or better than both petroleum-sourced diesel and biodiesel on many critical ASTM certification metrics, as shown in the following chart:

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We will produce our renewable diesel by the simple chemical step of hydrogenating our farnesene. Hydrogenation is a common chemical process currently used in the production of liquid transportation fuels, margarine and numerous other products. We plan to complete this process in one or more locations to be determined based on a variety of factors, including cost, reliability and proximity to the production site and end customer.

We have completed significant steps to validate our ability to produce a market-accepted diesel product. By design, our product is a hydrocarbon of similar size to many of the hydrocarbons in petroleum-sourced diesel fuel. Due to the similarity of its chemical composition to that of existing petroleum-sourced diesel, our product has the properties required of diesel fuel and thereby satisfies the American Society for Testing and Materials, or ASTM, D975 Table 1 specifications for petroleum-derived diesel fuel oils. The EPA has registered our diesel for use as a 20% blend with petroleum diesel in standard engines and we are working to obtain registration for a higher blend with petroleum diesel. Our blend ratio compares, by way of example, with the typical 3-5% blend of other bio-diesel products with petroleum diesel. We have completed successful engine testing of our diesel fuel with Cummins and Mercedes-Benz Brasil at a blend of up to 10%, and we continue to work with other diesel engine manufacturers to qualify our product for use in their engines.

The prices at which we expect to be able to sell our diesel fuel are lower than those of many of the chemical products that we may sell. Consequently, our ability to successfully enter the diesel fuels market is particularly dependent upon our ability to continue to lower our production costs. Our ability to enter the diesel market is also dependent on our continuing to achieve the required regulatory approvals in the global markets in which we will seek to sell our diesel products. These approvals primarily involve clearance by the relevant environmental agencies in the particular jurisdiction. We must also be certified by a sufficient number of diesel engine manufacturers, vehicle manufacturers or operators of large trucking fleets so that our diesel will have an appropriately large and accessible addressable market. Our experience with Cummins and Mercedes-Benz Brasil supports our belief that because our fuel is substantially similar to petroleum diesel fuel, OEMs are receptive to investing the time and resources needed for the certification process.

We believe that we will also have the capacity to produce a jet fuel that is competitive with existing petroleum-sourced jet fuel. Through a different combination of fermentation and chemical finishing steps, we have produced fuels that have the chemical properties required of jet fuel. We have agreements with and/or have begun testing a series of jet fuels through this process with major engine and aircraft manufacturers.

Ethanol Sales and Collaborative Research Services

Since the second quarter of 2008 we have generated revenues from the purchase and sale of third party ethanol in the U.S. We expect to continue to engage in these purchases and sales to further develop our fuel distribution capabilities in the U.S. We have also derived revenues from providing collaborative research services under agreements with the Bill and Melinda Gates Foundation and sanofi-aventis.

Product Distribution and Sales

We intend to distribute and sell our products either directly or with partners, depending on the market. For most chemical applications, we intend to sell directly to specialty chemical and consumer products companies. We have entered into discussions with several of these companies, based on our ability to offer an attractive alternative to petroleum-based products by reducing their exposure to commodity price volatility and by providing the benefits of using a renewable ingredient.

Our approach to the diesel market will vary by the different regions in which we intend to market our renewable diesel. For Brazil and other markets outside the U.S., we intend to sell indirectly through third parties. In the U.S., we plan to vertically integrate our commercialization efforts to the point of blending our renewable diesel with petroleum-sourced diesel, which may make us eligible to receive certain blend credits. We expect that our customers in the U.S. will be large purchasers of diesel transportation fuels, including corporations with large trucking fleets.

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Since 2008, we have been developing a fuels distribution network and capabilities in the U.S. through Amyris Fuels, through which we currently purchase ethanol produced by third parties and sell it to wholesale customers. For 2009, Murphy Oil USA, Inc. and The Pantry, Inc. each accounted for more than 10% of our reported revenues by virtue of their purchases of ethanol from Amyris Fuels. Our customers purchase ethanol from us under short term agreements and spot transactions, and we currently do not have any contractual commitments from customers to purchase ethanol from us over a period of time.

Intellectual Property

Our success depends in large part upon our ability to obtain and maintain proprietary protection for our products and technologies, and to operate without infringing the proprietary rights of others. We seek to avoid the latter by monitoring patents and publications in our product areas and technologies to be aware of developments that may affect our business, and to the extent we identify such developments, evaluate and take appropriate courses of action. With respect to the former, our policy is to protect our proprietary position by, among other methods, filing for patent applications on inventions that are important to the development and conduct of our business with the U.S. Patent and Trademark Office (USPTO) and its foreign counterparts.

To date, we have 22 issued U.S. and foreign patents and 195 pending U.S. and foreign patent applications that are owned by or licensed to us. We also use other forms of protection (such as trademarks, copyrights, and trade secrets) to protect our intellectual property, particularly where we do not believe patent protection is appropriate or obtainable. We aim to take advantage of all of the intellectual property rights that are available to us and believe that this comprehensive approach provides us with a strong proprietary position.

Notwithstanding the increasing backlog and patent pendency at the USPTO, we have obtained U.S. patents for many of our potential products through the use of a recently introduced accelerated examination program by the USPTO. Using this procedure, we have obtained patents for various fuel products: U.S. Patent No. 7,399,323 covering Amyris Renewable Diesel; U.S. Patent No. 7,540,888 covering Amyris Renewable Gasoline; and U.S. Patents No. 7,589,243 and No. 7,671,245, covering Amyris Renewable Jet Products. Since obtaining our fuels patents, we have expanded the use of this program to our chemicals portfolio and have recently obtained U.S. Patent Nos. 7,592,295 and 7,691,792 for lubricant products, and U.S. Patent No. 7,655,739, which covers adhesive products.

We also protect our proprietary information by requiring our employees, consultants, contractors and other advisers to execute nondisclosure and assignment of invention agreements upon commencement of their respective employment or engagement. Agreements with our employees also prevent them from bringing the proprietary rights of third parties to us. In addition, we also require confidentiality or material transfer agreements from third parties that receive our confidential data or materials.

Competition

We expect that our renewable products will compete with both the traditional, largely petroleum-based specialty chemical and fuels products that are currently being used in our target markets and with the alternatives to these existing products that established enterprises and new companies are seeking to produce. Amyris Fuels competes with other ethanol distributors.

Chemical Products

The chemical products that we initially plan to produce include emollients, flavors and fragrances, surfactants, for various consumer and commercial purposes, isoprene, industrial and automotive oils and lubricants. In these markets, and other chemical markets that we may seek to enter in the future, we will compete with the established providers of components currently used in these products. Producers of these incumbent products include global oil companies, large international chemical companies and other companies specializing in specific products, such as squalane or essential oils. We may also compete in one or more of these markets with products that are offered as alternatives to the traditional petroleum-based or other traditional products being offered in these markets.

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Transportation Fuel Products

Independent and Integrated oil refiners. Our competitors with respect to traditional fuel products are independent and integrated oil refiners. These companies are also our primary competitors with respect to fuels, including jet fuel currently in use in other transportation markets. We compete with these companies because an increasing penetration of renewable fuels reduces the need for fuels derived from traditional petroleum sources.

Many of these companies are seeking to provide alternative transportation fuel products through investing in internal research and development programs or in emerging technology companies. These efforts include processes that use non-renewable feedstocks, such as natural gas and coal, and renewable feedstocks, such as vegetable oil and biomass. These technologies are in varying states of development, the most advanced of which are those using non-renewable feedstocks, such as coal. The application of refining technologies to renewable feedstocks is less developed, with demonstration units in operation using vegetable oil or animal fats at a number of oil companies and active research on refining of biomass at other companies.

Advanced biofuels. Many other companies are exploring options for the production of diesel and other transportation fuels from renewable resources in other ways. These include companies using enzymes to convert cellulosic biomass, which is non-food plant material such as wood chips, corn stalks and sugarcane bagasse, into fermentable sugars to be converted into renewable fuels.

Biodiesel. Another source of renewable fuels products is the biodiesel industry, which is served by large, well-established agricultural products companies that convert vegetable oils, and in some cases animal oils, into diesel fuel. Other companies are seeking to produce diesel and other transportation fuels using thermochemical methods to convert biomass into renewable fuels.

We believe the primary competitive factors in both the chemical and fuel markets are:

product price;
product performance and other measures of quality;
infrastructure compatibility of products;
sustainability; and

dependability of supply.

The oil companies, large chemical companies and well-established agricultural products companies with which we compete are much larger than we are, in many cases have well developed distribution systems and networks for their products, have historical relationships with the potential customers we are seeking to serve and have sales and marketing programs in place to promote their products. In order to be successful, we must convince customers that our products are at least as effective as the products we are seeking to replace and we must provide our products on a

cost-competitive basis. Some of our competitors may use their influence to impede the development and acceptance of renewable products of the type that we are seeking to produce

We believe that for our chemical products to succeed in the market, we must demonstrate that they are comparable to both existing products and other alternative products that are being developed for the same markets based on some combination of product cost, availability, performance and consumer preference characteristics. With respect to our diesel and other transportation fuels products, we believe that our product must perform as effectively as the petroleum-sourced fuel and be available on a cost-competitive basis. Given the size of the traditional transportation fuels markets and the developing stage of alternatives fuels markets, we do not believe that our success will necessarily prevent other renewable diesel or other fuels products from achieving commercial success, or that the success of other renewable products will prevent our fuels products from being successful. However, with the wide range of renewable fuels products under development, we must be successful in reaching potential customers and convincing them that ours are effective and reliable alternatives.

Amyris Fuels

Amyris Fuels competes with regional ethanol distributors in the southeastern U.S. The primary competitive factors in the Amyris Fuels business are price, convenience, and reliability of supply.

Environmental and Other Regulatory Matters

Our development and production processes involve the use, generation, handling, storage, transportation and disposal of hazardous chemicals and radioactive and biological materials. We are subject to a variety of federal, state, local and international laws, regulations and permit requirements governing the use, generation, manufacture, transportation, storage, handling and disposal of these materials in the U.S., Brazil and other countries where we operate or may operate or sell our products in the future. These laws, regulations and permits can require expensive fees, pollution control equipment or operational changes to limit actual or potential impact of our technology on the environment and violation of these laws could result in significant fines, civil sanctions, permit revocation or costs from environmental remediation. We believe we are currently in substantial compliance with applicable environmental regulations and permitting. However, future developments including our commencement of commercial manufacturing of one or more of our products, requiring more stringent environmental regulation, policies and enforcement, the implementation of new laws and regulations or the discovery of unknown environmental conditions may require expenditures that could have a material adverse effect on our business, results of operations or financial condition. See Risk Factors Risks Relating to Our Business We may incur significant costs complying with environmental laws and regulations, and failure to comply with these laws and regulations could expose us to significant liabilities.

The use of GMMs like our yeast strains, is subject to laws and regulations in many countries. In the U.S., the EPA regulates the commercial use of GMMs as well as potential products from the GMMs. The strain of genetically modified yeast that we use, *S. cerevisiae*, is eligible for exemption from EPA review because the EPA recognizes it as posing a low risk given its long history of safe use and will qualify for such exemption provided that it meets certain criteria, including but not limited to use of compliant containment structures and safety procedures. In Brazil, GMMs are regulated by CTNBio under its Biosafety law No 11.105-2005. We have obtained approval from CTNBio to use GMMs in our Campinas facilities for research and development purposes. In addition, we have obtained initial commercial approval from CTNBio for one of our current yeast strains. We expect to encounter GMM regulations in most if not all of the countries in which we may seek to make our products, however, the scope and nature of these regulations will likely be different from country to country. If we cannot meet the applicable requirements in countries in which we intend to use produce our products using our yeast strains, then our business will be adversely affected.

See Risk Factors Risks Relating to Our Business We may not be able to obtain regulatory approval for the use of our genetically modified yeast strains.

Our renewable chemical products may subject to regulation by government agencies in our target markets. The EPA administers the requirements of the TSCA, which regulates the commercial use of chemicals. Before an entity can manufacture a chemical, it needs to determine whether that chemical is listed in the TSCA inventory. If the substance is listed, then manufacture can commence immediately. If not, then a pre-manufacture notice must be filed with the EPA which has 90 days to review.

Our diesel fuel is subject to regulation by various government agencies. In the U.S., this includes the EPA and the California Air Resources Board. In Brazil, this includes Agencia Nacional do Petroleo, or ANP. To date we have obtained registration with the EPA for the use of our diesel in the U.S. at a 20% blend rate. We are currently seeking supplemental EPA registration for a 35% blend rate and working to secure ANP approval for use of our diesel in Brazil at a 10% blend rate. We are currently exploring registration of our fuel with the California Air Resources Board and the European Commission. Registration with each of these bodies is required for the sale and use of our fuels within their respective jurisdictions. Risk Factors Risks Relating to Our Business We may not be able to obtain regulatory approval for our renewable products.

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Amyris Fuels is subject to various U.S. federal regulations relating to its marketing and distribution of ethanol, and it is registered with the EPA in connection with its use of ethanol as a fuel additive. In addition, Amyris Fuels is subject to various state regulations, including regulations regarding excise tax payments and the posting of surety bonds in connection with ethanol sales.

Research and Development

We devote substantial resources to our research and development efforts. Our research and development organization is comprised of approximately 190 employees, 60 of whom hold Ph.D.s. Our technology development is currently focused primarily on improving the performance of our production strains and on developing strains that produce new molecules. To facilitate the transfer of our fermentation technology to production, we operate pilot-scale fermentation facilities in both Emeryville, California, and Campinas, Brazil, and transfer strains on a regular basis through this process. Our process consists of a number of discrete steps including:

identifying new target molecules

creating new microbial strains capable of producing the target molecule

increasing product yield and productivity from microbial strains through strain modification or fermentation improvements

increasing efficiency of product separation and purification

continuous translation of these steps from lab to commercial scale production.

Our research and development expenditures were approximately \$8.7 million, \$30.3 million and \$38.3 million for the fiscal years ended December 31, 2007, 2008 and 2009, respectively.

Employees

As of April 1, 2010, we had 248 full-time employees. Of these employees, 184 were in the U.S. and 64 were in Brazil. None of our employees is represented by a labor union or is covered by a collective bargaining agreement. We have never experienced any employment-related work stoppages and consider relations with our employees to be good.

Facilities

We lease approximately 125,000 square feet of space in two adjacent buildings in Emeryville, California, pursuant to two leases. Of this, we use approximately 82,000 square feet for general office purposes and lab space, and approximately 23,000 square feet comprise our pilot plant.

Approximately 20,000 square feet of office space was vacated in the restructuring that we completed in August 2009. The leases expire in May 2018. We have an option to extend these leases for five years.

Amyris Brasil leases approximately 13,000 square feet of space in Campinas, Brazil, pursuant to a lease that will expire in May 2013. Of this, approximately 9,000 square feet comprise a pilot plant and demonstration facility, and the remainder is general office and lab space. Amyris Brasil has a right of first refusal to purchase the space if the landlord elects to sell it and an option to extend the lease for five additional years.

Amyris Fuels has secured the use of ethanol storage tanks with an aggregate capacity of 32,500 barrels at various locations in Virginia, North Carolina, South Carolina, Georgia and Tennessee. The agreements have initial terms of approximately three years, which begin expiring in 2011. Upon expiration of the respective initial term, each agreement will continue for successive one-year terms until terminated by one of the parties.

We also use a small amount of office space in Oakbrook Terrace, Illinois.

We believe that our current facilities are suitable and adequate to meet our needs and that suitable additional space will be available to accommodate the foreseeable expansion of our operations.

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MANAGEMENT

Executive Officers and Directors

The following table sets forth information regarding our executive officers, directors and key employees as of March 31, 2010.

Name	Age	Position
Directors:		
John Melo	44	Director, President and Chief Executive Officer
Ralph Alexander ⁽¹⁾	55	Director
John Doerr ⁽²⁾	58	Director
Geoffrey Duyk, M.D., Ph.D. ⁽¹⁾ (2)	51	Director
Samir Kaul ⁽²⁾	36	Director
Patrick Pichette ⁽¹⁾	47	Director
Carole Piwnica	52	Director
Keith Kinkead Reiling, Ph.D.	36	Director and Senior Vice President of Corporate Development
Fernando de Castro Reinach, Ph.D.	53	Director
Other Executive Officers:		
Jeryl Hilleman	52	Chief Financial Officer
Peter Boynton	55	Chief Commercial Officer
Joel Cherry, Ph.D.	49	Senior Vice President, Research Programs and Operations
Jefferson Lievense, Ph.D.	55	Senior Vice President, Process Development and Manufacturing
Mario Portela	48	Chief Operating Officer
Neil Renninger, Ph.D.	35	Chief Technical Officer
Tamara Tompkins	45	Senior Vice President, General Counsel and Secretary
Key Employees:		
Jack Newman, Ph.D.	43	Senior Vice President, Research

- (1) Member of Audit Committee
- (2) Member of Compensation Committee

Directors

John Melo

John Melo has served as our President and Chief Executive Officer and a director since January 2007 and our President since January 2008. Before joining Amyris, Mr. Melo served in various senior management positions at BP Plc (formerly British Petroleum), one of the world s largest energy firms, from 1997 to 2006, most recently as President of U.S. Fuels Operations from 2004 until December 2006, and previously as Chief Information Officer of the refining and marketing segment from 2001 to 2003, Senior Advisor for e-business strategy to Lord Browne, BP Chief Executive, from 2000 to 2001, and Director of Global Brand Development from 1999 to 2000. Before joining BP, Mr. Melo was with Ernst & Young, an accounting firm, from 1996 to 1997, and a member of the management teams of several startup companies, including Computer Aided Services, a management systems integration company, and Alldata Corporation, a provider of automobile repair software to the automotive service industry. Mr. Melo currently serves on the board of directors of U.S. Oil Company. Mr. Melo s experience as a senior

executive at one of the world s largest energy companies provides critical leadership in designing the fuels value chain, shaping strategic direction and business transactions, and in building teams to drive innovation.

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Ralph Alexander

Ralph Alexander has been a member of our Board of Directors since May 2007. Mr. Alexander has been a Managing Director at Riverstone Holdings, LLC, an energy and power-focused private equity firm, since September 2007. Previously, he served in various senior management positions with affiliates and subsidiaries of BP Plc (formerly British Petroleum), most recently as Chief Executive Officer of Innovene, BP s olefins and derivatives subsidiary, from 2004 to December 2005, as Chief Executive Officer of BP s Gas, Power and Renewables and Solar segment from 2001 to 2004, and as a Group Vice President in BP s Exploration and Production segment and BP s Refinery and Marketing segment. Mr. Alexander has served on the board of directors of Stein Mart Inc. since August 2007. Mr. Alexander previously served on the boards of directors Anglo-American Plc from April 2005 to October 2007 and of Foster Wheeler from May 2006 to February 2007. He is currently deputy-chairman of the board of Polytechnic University. Mr. Alexander holds a Bachelor of Science degree and a Master of Science degree in Nuclear Engineering from Brooklyn Polytech (now Polytechnic University), and a Master of Science degree in Management Science from Stanford University. Mr. Alexander s extensive experience with the energy industry generally and renewable fuels in particular enables him to provide important insight and guidance to our management team and Board of Directors.

John Doerr

John Doerr has been a member of our Board of Directors since May 2006. Mr. Doerr has been a Partner at Kleiner Perkins Caufield & Byers, a venture capital firm, since 1980. Mr. Doerr currently serves on the board of directors of Google Inc., as well as on the boards of directors of several private companies. Previously, Mr. Doerr served on the boards of directors of Amazon.com, Inc., Move, Inc., drugstore.com, Inc., Homestore.com, Inc., palmOne, Inc. and Sun Microsystems, Inc. Mr. Doerr holds a Bachelor of Science and a Master of Science in Electrical Engineering and Computer Science degrees from Rice University and a Master of Business Administration degree from Harvard University. Mr. Doerr s global business leadership as general partner of Kleiner Perkins Caufield & Byers, as well as his outside board experience as director of several public companies enable him to provide valuable insight and guidance to our management team and Board of Directors.

Geoffrey Duyk, M.D., Ph.D.

Dr. Geoffrey Duyk has been a member of our Board of Directors since May 2006. Dr. Duyk is a partner of TPG Growth, LLC, an affiliate of TPG Biotechnology Partners II, L.P. Previously, he served on the board of directors and was President of Research and Development at Exelixis, Inc., a biopharmaceutical company focusing on drug discovery, from 1996 to 2003. Prior to Exelixis, Dr. Duyk was Vice President of Genomics and one of the founding scientific staff at Millennium Pharmaceuticals, from 1993 to 1996. Before that, Dr. Duyk was an Assistant Professor at Harvard Medical School in the Department of Genetics and Assistant Investigator of the Howard Hughes Medical Institute. Dr. Duyk currently serves on the boards of directors of several private companies and the non-profit Wesleyan University Board of Trustees. He served on the board of directors of Agria Corporation from August 2007 to May 2009, Cardiovascular Systems, Inc. (formerly Replidyne, Inc.) from 2004 to February 2009, Exelixis, Inc. from 1996 to 2003, and several private companies. Dr. Duyk holds a Bachelor of Arts degree in Biology from Wesleyan University and Doctor of Philosophy and medical degrees from Case Western Reserve University. Mr. Duyk s experience with the biotechnology industry enables him to provide insight and guidance to our management team and Board of Directors.

Samir Kaul

Samir Kaul has been a member of our Board of Directors since May 2006. Mr. Kaul has been a General Partner at Khosla Ventures, a venture capital firm focusing on clean technologies, since February 2006. Previously, Mr. Kaul was a member of Flagship Ventures, a venture capital firm, from 2002 to May 2006. Prior to Flagship, Mr. Kaul worked at The Institute for Genomic Research (TIGR). Mr. Kaul currently serves on

the boards of directors of several private companies. Mr. Kaul holds a Bachelor of Science degree in Biology from the University of Michigan, a Master of Science degree in Biochemistry from the University of Maryland and a

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Master of Business Administration degree from Harvard University. Mr. Kaul provides our Board of Directors with wide-ranging experience in synthetic biology and high throughput system development and insight in the management of startup companies.

Patrick Pichette

Patrick Pichette has been a member of our Board of Directors since March 2010. Mr. Pichette has been a Senior Vice President and the Chief Financial Officer of Google Inc., an internet search company, since August 2008. Previously, he served in various senior financial management positions at Bell Canada, a telecommunications firm, from 2001 to July 2008, most recently as President, Operations from 2004 to July 2008 and, from 2002 to 2003, as Chief Financial Officer. Mr. Pichette was a partner at McKinsey & Company, a consulting firm, from 1996 to 2000, and served as Vice President and Chief Financial Officer of Call-Net Enterprises, a Canadian telecommunications company, from 1994 to 1996. Mr. Pichette served on the board of directors of Alaska Communication Systems, Inc. from 2004 to August 2008 and Aliant Communications Systems Group, Inc. from 2006 to August 2008. He currently serves on the boards of the non-profit organizations Engineers Without Borders and the Trudeau Foundation. Mr. Pichette holds a Bachelor of Arts degree in Business Administration from Université du Québec à Montréal and a Master of Arts degree in Philosophy, Politics and Economics from Oxford University, where he attended as a Rhodes Scholar. Mr. Pichette s expertise in accounting, finance, international financial operations and management enables him to provide important insight and guidance to our management team and Board of Directors and to serve as a member of our Audit Committee.

Carole Piwnica

Carole Piwnica has been a member of our Board of Directors since September 2009. Ms. Piwnica has been Director of NAXOS UK, a consulting firm advising private equity, since January 2008. Previously, Ms. Piwnica served as a director, from 1996 to July 2006, and Vice-Chairman of Governmental Affairs, from 2000 to 2006, of Tate & Lyle Plc, a European food and agricultural ingredients company. She was a director of S.A. Spadel N.V., a European soft drink company, from 1998 to 2004, and a chairman of Amylum Group, a European food ingredient company and subsidiary of Tate & Lyle Plc, from 1996 to 2000. From 1992 to 1996, Ms. Piwnica held general management positions and board memberships in various other European food companies, including Cacao Barry and Vital Sogéviandes. Ms. Piwnica currently serves on the boards of directors of Toepfer International GmbH, Dairy Crest Group Plc and Aviva Plc. She was a member of the Biotech Advisory Council of Monsanto from May 2006 to October 2009. Ms. Piwnica holds a Law degree from the Université Libre de Bruxelles and a Master of Laws degree from New York University. Ms. Piwnica provides the Board of Directors and management with significant experience in corporate leadership in multinational firms.

Keith Kinkead Reiling, Ph.D.

Dr. Reiling is a co-founder of Amyris and has been a member of our Board of Directors since July 2008 and from 2003 to May 2006. Dr. Reiling has served as our Senior Vice President, Corporate Development since January 2008 and also served as our President from 2003 to January 2008. He holds a Bachelor of Science degree in Physics from the University of California, Los Angeles, a Master of Science degree in Applied Physics from Columbia University and a Doctor of Philosophy degree in Biophysics from the University of California, San Francisco. Dr. Reiling provides our Board of Directors with insight into the fundamental science behind Amyris technology and the application of that technology in the chemicals and fuels sectors.

Fernando de Castro Reinach, Ph.D.

Dr. Fernando de Castro Reinach has been a member of our Board of Directors since September 2008. Dr. Reinach has been a General Partner at Votorantim Novos Negócios Ltda., the private equity arm of Votorantim Group, a large Brazilian industrial group, since 2001. Before joining Votorantim, he was involved in

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the creation of two companies, Genomic Engenharia Molecular Ltda., a molecular diagnostic laboratory, and .ComDominio S/A, a datacenter company. Dr. Reinach currently serves on the board of directors of Tivit Terceirização de Processos, Serviços e Tecnologia S/A, a Brazilian IT company which is publicly traded in Brazil. Dr. Reinach holds Bachelor of Science degree in biology from the University of São Paulo and a Doctor of Philosophy degree in Cell and Molecular Biology from Cornell University Medical College. Dr. Reinach s experience with Brazilian business practices and startup companies enable him to provide important insight and guidance to our management team and Board of Directors and to assist management with establishing and developing operations in Brazil.

Other Executive Officers

Jeryl Hilleman

Jeryl Hilleman has served as our Chief Financial Officer since January 2008. Before joining Amyris, from 1997 to June 2007, she was Executive Vice President and Chief Financial Officer of Symyx Technologies, Inc., a research and development infrastructure company providing scientific software and research services to technology companies. Before Symyx, Ms. Hilleman worked with two biotechnology companies, Geron Corporation, a biopharmaceutical company, as Vice President, Finance from 1992 to 1997, and Cytel Corporation, a provider of clinical trial design tools, services and statistics applications, as Chief Financial Officer from 1987 to 1992. Ms. Hilleman holds a Bachelor of Arts degree in History from Brown University and a Master of Business Administration degree from the Wharton Graduate School of Business.

Peter Boynton

Peter P. Boynton has served as our Chief Commercial Officer since December 2009. Mr. Boynton joined Amyris from Tate & Lyle Plc, a global food and agricultural ingredients company, where he served in various positions from 1999 to December 2009, most recently as Senior Vice President, Bio-products and Fermentation. Previously, he held multiple positions at Cargill, Inc., a privately held food and agriculture company, from 1980 to 1998, lastly as Vice President NACM. Mr. Boynton holds a Bachelor of Science degree in Economics from the University of Georgia.

Joel Cherry, Ph.D.

Dr. Joel Cherry has served as our Senior Vice President of Research Programs and Operations since November 2008. Before joining Amyris, Dr. Cherry was Senior Director of Bioenergy Biotechnology at Novozymes, a biotechnology company focusing on development and manufacture of industrial enzymes from 1992 to November 2008. At Novozymes, he served in a variety of R&D scientific and management positions, including membership in Novozymes International R&D Management team, and as Principal Investigator and Director of the BioEnergy Project, a U.S. Department of Energy-funded \$18 million effort initiated in 2000. Dr. Cherry holds a Bachelor of Arts degree in Chemistry from Carleton College and a Doctor of Philosophy degree in Biochemistry from the University of New Hampshire.

Jefferson Lievense, Ph.D.

Dr. Jefferson Lievense has served as our Senior Vice President of Process Development and Manufacturing since December 2007. Before joining Amyris, he was the Vice President of Technology and Process Development and served in other technology management positions for the Research and Development organization of Tate & Lyle Plc, a European food and agricultural ingredients company, from 1994 to November 2007. Prior to that, he was Vice President of Research and Operations and President of the Bio-Business Incubator of Michigan Biotechnology Institute from 1993 to 1994, Director of Chemical Programs and Pathway Engineering for Genencor International from 1990 to 1993, and held various process engineering, research scientist and product management positions at Eastman Kodak Company from 1982 to 1989.

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Dr. Lievense holds a Bachelor of Science degree in Chemical Engineering from The University of Michigan and a Doctor of Philosophy degree in Chemical Engineering from Purdue University.

Mario Portela

Mario Portela joined us as our Chief Operating Officer in December 2009. He also serves as Chair of the Board of Directors of Amyris Brasil. He has also worked since December 2008 as an advisor to TPG Capital on strategy, mergers and acquisitions. From December 2007 to December 2008, Mr. Portela was Vice President and Officer, Corporate Development, with LyondellBasell Industries, a leading manufacturer of polymers, petrochemicals, fuels and technology licensing. He held a similar position with Lyondell Chemical Company from 2003 until its merger with Basell in December 2007. Mr. Portela holds a degree in Mechanical Engineering from the IMPE Institute in Lisbon, Portugal.

Neil Renninger, Ph.D.

Dr. Neil Renninger is a co-founder of Amyris and has served as our Chief Technical Officer since January 2008, and has also served as our Vice President of Development from 2003 to March 2007 and as our Senior Vice President of Development from March 2007 to January 2008. Dr. Renninger holds a Bachelor of Science degree in Chemical Engineering from the Massachusetts Institute of Technology, a Master of Science degree in Environmental Engineering and a Doctor of Philosophy degree in Chemical Engineering from the University of California, Berkeley.

Tamara Tompkins

Tamara Tompkins has served as our General Counsel since February 2005, Secretary since November 2005 and Senior Vice President since July 2007. Before joining Amyris, she practiced as an attorney at Morgan, Lewis & Bockius LLP, a law firm, from 2003 to February 2005. Previously, Ms. Tompkins worked as an attorney at Brobeck, Phleger & Harrison LLP, a law firm, from 1996 to 1999 and from 2000 to 2003, and Shearman & Stearling LLP, a law firm, from 1994 to 1996. From 1999 to 2000, she was the Director of the Berkeley Center for Law and Technology at the Boalt Hall School of Law. Ms. Tompkins holds a Bachelor of Arts degree in History from Middlebury College and a Juris Doctor degree from Georgetown University Law Center.

Key Employee

Jack Newman, Ph.D.

Dr. Jack Newman is a co-founder of Amyris and has served as our Senior Vice President of Research since July 2007, and also served as our Director, Biology from 2004 to June 2007. Dr. Newman holds a Bachelor of Arts degree in Molecular and Cell Biology from the University of California, Berkeley and a Doctor of Philosophy degree from the University of Wisconsin-Madison in the field of microbial physiology and gene regulation.

Our executive officers are elected by, and serve at the discretion of, our Board of Directors. There are no family relationships among any of our directors and executive officers.

Board of Directors

Under our amended and restated certificate of incorporation that will become effective immediately prior to the closing of this offering, our Board of Directors may set the authorized number of directors. Each director currently serves until our next annual meeting or until his or her successor is duly elected and qualified. Upon the completion of this offering, our common stock will be listed on . The rules of require that a majority of the members of our Board of Directors be independent within specified periods following the closing of this offering. We believe that seven of our directors are independent as determined under these rules: Ralph Alexander, John Doerr, Dr. Geoffrey Duyk, Samir Kaul, Patrick Pichette, Carole Piwnica and Dr. Fernando de Castro Reinach.

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Pursuant to a voting agreement as most recently amended and restated on March 12, 2010, Messrs. Kaul and Doerr and Dr. Duyk were appointed to our Board of Directors by certain of our investors. As of the date of this prospectus, Messrs. Kaul and Doerr and Dr. Duyk continue to serve on our Board of Directors and will continue to serve as directors until their resignation or until their successors are duly elected by the holders of our common stock, despite the fact that the voting agreement will terminate upon the completion of this offering.

Immediately prior to the completion of this offering, we will file our amended and restated certificate of incorporation. We anticipate that the amended and restated certificate of incorporation will divide our Board of Directors into three classes, with staggered three-year terms:

Class I directors, whose initial term will expire at the annual meeting of stockholders to be held in 2011;

Class II directors, whose initial term will expire at the annual meeting of stockholders to be held in 2012; and

Class III directors, whose initial term will expire at the annual meeting of stockholders to be held in 2013.

At each annual meeting of stockholders after the initial classification, the successors to directors whose terms have expired will be elected to serve from the time of election and qualification until the third annual meeting following such election. Upon the completion of this offering, the Class I directors will consist of , and ; and the Class III directors will consist of , and ; and the Class III directors will consist of , and . As a result, only one class of directors will be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms.

In addition, we intend to amend and restate our certificate of incorporation and bylaws immediately prior to the completion of this offering to provide that only our Board of Directors may fill vacancies on our Board of Directors until the next annual meeting of stockholders. Any additional directorships resulting from an increase in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the total number of directors.

The classification of our Board of Directors and provisions described above may have the effect of delaying or preventing changes in our control or management. See Description of Capital Stock Anti-Takeover Provisions Restated Certificate of Incorporation and Restated Bylaw Provisions.

Board Committees

Our Board of Directors has an Audit Committee and a Compensation Committee and will have a Nominating and Governance Committee, each of which has the composition and responsibilities described below as of the closing of this offering. Members serve on these committees until their resignations or until otherwise determined by our Board of Directors.

Audit Committee

Our Audit Committee is comprised of Mr. Alexander, Dr. Duyk and Mr. Pichette, who is the chair of the Audit Committee. The composition of our Audit Committee meets the requirements for independence under the current stock exchange and SEC rules and regulations. Each member of our Audit Committee is financially literate. In addition, we believe that Mr. Pichette is an audit committee financial expert as defined in Item 407(d)(5)(ii) of Regulation S-K promulgated under the Securities Act of 1933, as amended, or the Securities Act. Being an audit committee financial expert does not impose on Mr. Pichette any duties, obligations or liabilities that are greater than are generally imposed on him as a member of our Audit Committee and our Board of Directors. Our Board of Directors adopted a charter for our Audit Committee. Our Audit Committee, among other things, will:

oversee our accounting and financial reporting processes and audits of our consolidated financial statements;

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oversee our relationship with our independent auditors, including appointing and changing our independent auditors and ensuring their independence;

review and approve the audit and permissible non-audit services to be provided to us by our independent auditors;

facilitate communication among the independent auditors, our financial and senior management and the Board of Directors; and

monitor the periodic reviews of the adequacy of the accounting and financial reporting processes and systems of internal control.

Compensation Committee

Our Compensation Committee is comprised of Messrs. Doerr and Kaul and Dr. Duyk. The composition of our Compensation Committee meets the requirements for independence under the current stock exchange and SEC rules and regulations. The purpose of our Compensation Committee is to provide guidance and periodic monitoring for all of our compensation, benefit, perquisite and employee equity programs. We anticipate that our Compensation Committee will recommend, and our Board of Directors will adopt, a new charter for our Compensation Committee. Our Compensation Committee will discharge the responsibilities of our Board of Directors relating to compensation of our executive officers, and will, among other things:

review and approve, or recommend that our Board of Directors approve, the compensation of our executive officers;

review and recommend to our Board of Directors the compensation of our directors;

review and approve the terms of any material agreements with our executive officers;

administer our stock and equity incentive plans;

review and make recommendations to our Board of Directors with respect to incentive compensation and equity plans; and

establish and review our overall compensation philosophy.

Nominating and Governance Committee

We intend to establish a Nominating and Governance Committee by the time we complete this offering.

We intend to post the charters of our audit, compensation, and nominating and governance committees, and any amendments that may be adopted from time to time, on our website.

Compensation Committee Interlocks and Insider Participation

During fiscal 2009, our Compensation Committee consisted of Messrs. Doerr and Kaul and Dr. Duyk. None of them has at any time in the last fiscal year been one of our officers or employees, and none has had any relationships with our company of the type that is required to be disclosed under Item 404 of Regulation S-K. None of our executive officers has served as a member of the Board of Directors, or as a member of the compensation or similar committee, of any entity that has one or more executive officers who served on our Board of Directors or Compensation Committee during fiscal 2009. Messrs. Doerr and Kaul have pecuniary interests in their respective affiliated venture funds and may be deemed to have an interest in certain transactions with us, as more fully described in Certain Relationships and Related Party Transactions below.

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Code of Business Ethics and Conduct

Our Board of Directors will adopt a code of business conduct by the time we complete this offering. The code of business conduct will apply to all of our employees, officers and directors. The full text of our code of business conduct will be posted on our website. We intend to disclose future amendments to certain provisions of our code of business conduct, or waivers of these provisions, on our website and also in public filings.

Director Compensation

Our employee directors, Messrs. Melo and Reiling, have not received any compensation in connection with their service as directors. The compensation that we pay to Mr. Melo is discussed in the Executive Compensation section of this prospectus. As described under Management Executive Officers and Directors, Mr. Reiling is employed in the capacity of Senior Vice President of Corporate Development and receives cash compensation and equity awards in such capacity, as determined by our Compensation Committee.

We pay our non-employee directors who are not affiliated with any of our stockholders a \$5,000 fee for each meeting attended by them. This policy currently applies to Mr. Ralph Alexander and Ms. Carole Piwnica. In fiscal year 2009, pursuant to this policy, Mr. Alexander and Ms. Piwnica earned the fees described in the table below.

Name	Fees Earned or Pa	Fees Earned or Paid in Cash (\$)			
Ralph Alexander	\$	10,000			
Carole Piwnica	\$	5,000			

Except for meeting attendance fees in accordance with the policy described above, since our incorporation we have not paid any cash compensation to any of our directors for their service on the Board of Directors or on committees of the Board of Directors.

Certain of our non-employee directors were granted options to purchase shares of our common stock, as follows:

		Number of Shares Underlying Unexercised	Exercise Price	Vesting Start	Grant Date Fair Value of Option
Name	Date of Grant	Option ⁽¹⁾	Per Share(\$)	Date	Awards (\$)(2)
Ralph Alexander	9/27/2007	$45,000^{(3)}$	3.93	7/20/2007(4)	116,649
Patrick Pichette	3/19/2010	$100,000^{(3)}$	14.28	3/4/2010 ⁽⁵⁾	1,126,040
Dr. Fernando de Castro Reinach ⁽⁶⁾	9/15/2008	$60,000^{(7)}$	3.93	9/15/2008(8)	387,906

- (1) None of the options reported in this table have been exercised as of the date of this prospectus.
- (2) The amount in this column reflects the aggregate grant date fair value computed in accordance with ASC Topic 718. The assumptions used by us in determining the grant date fair value of option awards are set forth in Note 13 to our Consolidated Financial Statements included elsewhere in this prospectus. These amounts do not correspond to the actual value that will be

- recognized by the directors. The assumptions used in the valuation of these awards are consistent with the valuation methodologies specified in the notes to our Consolidated Financial Statements.
- (3) These options are immediately exercisable without regard to vesting schedule. We retain a right of repurchase of unvested shares resulting from exercise of such options.
- (4) This option vested over two years from the vesting start date.
- (5) This option will vest in quarterly increments over three years from the vesting start date at a rate of 1/12 per quarter.
- (6) This option was granted in consideration for Dr. Reinach s service on the Board of Directors and was issued in the name of Lit Tele, Inc., whose parent is an affiliate of Dr. Reinach, as more fully described in the Certain Relationships and Related Party Transactions section below.

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- (7) These options are not immediately exercisable and can be exercised only with respect to vested underlying shares.
- (8) This option will vest in equal quarterly increments over three years from the vesting start date at a rate of 1/12th per quarter.

John Doerr, Dr. Geoffrey Duyk, Samir Kaul and Carole Piwnica have not to date received any options to purchase shares of our common stock or other equity awards in connection with their service on our Board of Directors.

Executive Compensation

Compensation Discussion and Analysis

The following discussion describes and analyzes our compensation for our named executive officers for 2009, which include our President and Chief Executive Officer (CEO), our Chief Financial Officer (CFO) and the three most highly compensated executive officers other than the CEO and CFO as set forth in the *Summary Compensation Table* below (our named executive officers).

We are building an integrated renewable products company by applying our industrial synthetic biology platform to provide alternatives to select petroleum-sourced products used in specialty chemical and transportation fuel markets worldwide. Since our formation we have conducted substantial efforts to, and we continue to, further develop our technology platform. We have also engaged in extensive discussions and negotiations with third parties that we expect will provide facilities and feedstock for the production of our products and other third parties that we expect will purchase products that we produce. We have raised a substantial amount of capital from investors to support our growth as we seek to bring our products to market as well as from research institutions and other entities for the provision of collaborative research services and from government grants. Our success depends, among other things, on attracting and retaining executive officers with experience and skills in a number of different areas as we continue to further develop our products and seek to commercialize them.

We were formed in 2003. While our founders continue to serve us in key capacities, we have added a number of executive officers since our formation, including our CEO, CFO and other executives. These additional officers have joined us at various times from 2005 through December 2009.

Compensation Philosophy and Objectives and Elements of Compensation

Our intent and philosophy in designing compensation packages at the time of hiring new executives has been based in part on providing compensation that we thought was sufficient to enable us to attract the talent necessary to further develop our business while at the same time being prudent in the management of our cash and equity in light of the early stage of the development of our company. Compensation of our executive officers after the initial period following their hiring has been influenced by the amounts of compensation that we initially agreed to pay them as well as by our evaluation of their subsequent performance, changes in their levels of responsibility, prevailing market conditions, the financial condition and prospects of our company and our attempt to maintain some level of internal equity in the compensation of existing executives relative to the compensation paid to more recently hired executives.

We have compensated our executives with a combination of salaries, cash bonuses and stock option awards. We think this combination of cash and equity is largely consistent with the forms of compensation provided by other companies with which we compete for executive talent, and as

such is a package that matches the expectations of our executives and of the market for executive talent. We also believe that it provides an appropriate blend of compensation to retain our executives, reward them for performance in the short term and induce them to contribute to the creation of value in the Company over the long term.

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We view the different components of our executive compensation as distinct. We believe we must maintain a salary that is sufficiently competitive to position us to attract the executives that we need and that it is important that our executives perceive that over time they will continue to have the opportunity to earn a salary that they regard as competitive.

The ability to earn cash bonuses should incentivize executives to effectively pursue goals established by our Board of Directors and should be regarded by executives as appropriately rewarding effective performance against these goals. We have in the past sought to establish target bonus levels and performance goals for executives at the beginning of the year to help ensure that our performance goals, and the bonus attainable for achieving these goals, were well understood by executives.

Our equity awards are also designed to be sufficiently competitive to allow us to attract executives. We have used stock options as the form of equity award for executives. Because our executive officers are awarded stock options with an exercise price equal to the fair market value of our common stock on the date of grant, these options will have value to our named executive officers only if the market price of our common stock increases after the date of grant. Typically, since November 2007 our stock option awards to executive officers vested and became exercisable at a rate of 20% upon the one-year anniversary of grant and then monthly over the following four years. Our Board of Directors believes that these stock option awards align the interests of our named executive officers with those of the stockholders, because they create the incentive to build stockholder value over the long-term. In addition, our Board of Directors believes the five-year vesting provision of our equity awards improves our ability to retain our executives. We have also determined that in order to attract qualified executives in our market it is highly desirable to provide equity compensation that is regarded as competitive relative to the compensation provided by other privately held, venture-backed companies.

We grant stock options to executive officers in connection with their hiring. The size of the initial stock option award is determined based on the executive s position with us and takes into consideration the executive s base salary and other compensation as well as an analysis of the grant and compensation practices of the companies that participate in the survey that we have reviewed in the past in connection with establishing our overall compensation policies. The initial stock option awards are intended to provide the executive with an incentive to build value in the organization over an extended period of time, while remaining consistent with our overall compensation philosophy. Insofar as we have to date incurred operating losses and consumed substantial amounts of cash in our operations, we have sought to attract executives to join us by compensating for cash salaries and cash bonus opportunities that were, in certain cases, lower than the salaries and bonuses they earned in their prior positions with stock options having the potential to provide significant value if we were successful.

We may also grant additional stock option grants in recognition of a commendable performance and in connection with a significant change in responsibilities. Typically, our Board of Directors determines to make equity awards upon the recommendation of the Compensation Committee. In making its recommendation or determination, the Committee or Board takes into account various factors. These factors include the responsibilities, past performance and anticipated future contribution of the executive officer, the executive s overall compensation package and the executive s existing equity holdings.

Stock options are granted with an exercise price equal to the fair value of our stock on the applicable date of grant. Upon completion of this offering, we expect to determine fair value for purposes of stock option pricing based on the most recent closing price of our common stock on the stock exchange on which our common stock is listed.

As further discussed below, our compensation philosophy for 2009 was significantly influenced by the deteriorating global economic circumstances that began to materialize in late 2008.

Compensation Decision Process

Historic. Since our formation, our Board of Directors has overseen the compensation of our executive officers and our executive compensation programs and initiatives. While we have had a Compensation Committee of the Board, this committee has acted in an advisory role, assisting the Board of Directors in compensation matters. The Board of Directors has also sought, and received, significant input from our CEO with regard to the performance and compensation of executives other than himself.

In making compensation decisions for executive officers, we have referred to compensation survey data of competitive conditions in our market. With regard to annual base salaries and annual cash incentive bonus opportunity targets for fiscal year 2009, our Board of Directors reviewed comprehensive compensation data from the Radford Global Life Sciences Survey, which aggregated survey results from 130 biotechnology, pharmaceutical and medical device companies in Northern California with revenues of less than \$1 billion. In addition, certain of our directors have significant experience with privately held venture-backed companies such as our and the executive compensation practices of such companies, and have applied this knowledge and experience to their judgments regarding our compensation decisions.

Post-offering. Prior to the completion of this offering, we anticipate that our Compensation Committee will recommend, and our Board of Directors will adopt, a new charter for our Compensation Committee which will expand the committee s responsibilities. Currently, our Compensation Committee is comprised of Messrs. Doerr and Kaul and Dr. Duyk. In accordance with the amended charter, the Committee will determine the annual compensation of our CEO and other executive officers and will regularly report its compensation decisions to the full Board of Directors. The Committee will also administer our equity compensation plans, including our 2010 Equity Incentive Plan and 2010 Employee Stock Purchase Plan, which will become effective on or shortly after the date of this prospectus.

The Committee has not yet made significant decisions about the process that it will employ in performing these functions. All of our named executive officers continue to be paid the same salary that was in place at the end of 2009. We have retained Compensia, a compensation advisory firm, to support the Compensation Committee in developing our compensation structure as a publicly-held company. We expect that the Compensation Committee, with assistance from Compensia, will develop a peer group of companies to which it will refer in making compensation decisions regarding executive compensation.

2009 Compensation

In the final months of 2008, our Board of Directors recognized that the dramatically deteriorating condition of the global economy was likely to have an adverse affect on our business and prospects, at least in the near term. In the face of the challenging conditions of the financial markets at that time, our ability to continue to fund our operations through private placements of equity securities was uncertain.

In light of these conditions, in late 2008 our Board of Directors elected to forego our customary year-end process of considering changes in salaries for executive officers. Instead, the Board of Directors froze salaries at the time for all executive officers, as salaries were frozen for virtually all our employees. As a result, Mr. Melo s and Ms. Tompkins salaries remained at the same level as had been in place since January 2008, the last previous time that their salaries were increased. The salaries of Ms. Hilleman and Messrs. Cherry and Lievense remained at the same levels as had been established at the times that they were hired by us, between December 2007 and November 2008.

The Board of Directors also elected at this time not to put in place a cash bonus program for executives as it had in 2007-2008. In addition, the Board of Directors determined not to pay any cash bonuses to executives for services rendered in 2008.

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Later in 2009, it appeared that the deterioration in global economic conditions had slowed, if not ceased. Activity in the public equity markets in the U.S. and in venture capital financings began to suggest that the ability for privately held companies to raise capital, while still challenging, was improving from the conditions existing in late 2008 and most of 2009. Recognizing this improvement, the Board approved an increase in the annual salary of our CEO by \$100,000, to \$500,000, effective December 1, 2009. This salary increase was made in recognition of raising private equity through the sale of our Series C convertible preferred stock, progress that was made with sugar and ethanol producers for securing production capacity in Brazil and expansion of the management team through the hiring of a chief operating officer and chief commercial officer. In addition, the Board of Directors approved, also effective December 1, 2009, an increase in the annual salary of our General Counsel of \$29,500, to \$300,000, recognizing that Ms. Tompkins responsibilities had increased substantially as we continued to increase the size and scope of our operations and that her salary was lower than that of the other named executive officers by approximately this amount. The Board of Directors also took into account that each of these officers last received a salary increase effective January 1, 2008.

In the second half of 2009, the Board of Directors also approved a bonus payment to Mr. Melo of \$200,000 in recognition of the factors described above that were considered in approving Mr. Melo s salary increase. Mr. Melo and the Board of Directors approved the amounts of cash bonus payments to each of the other named executive officers as are set forth in the *Summary Compensation Table* appearing below. The bonuses were made in recognition of the support of these executives in the achievement of the factors considered by the Board in approving Mr. Melo s salary increase. In awarding these bonuses, the Board of Directors also took account of the fact that, other than Ms. Tompkins, none of these executive officers had received a salary increase or bonus since joining us.

In 2009, we granted stock options to three of our named executive officers. In September 2009, we granted options for the purchase of 210,000 shares to Mr. Cherry pursuant to the commitment we made at the time of hiring Mr. Cherry to grant him this number of stock options. Options for the purchase of 50,000 shares were granted to Mr. Leivense in recognition of the substantial and effective efforts made to oversee the development of our pilot and demonstration facilities in Brazil in 2009. Options for the purchase of 10,000 shares were granted to Ms. Tompkins in order to bring her aggregate option position closer in line with the option holdings of more recently hired executives and in recognition of efforts made in connection with the further development of Amyris Brasil and the joint venture with Usina São Martinho.

Severance and Change of Control Agreements

We have entered into offer letters, or amendments to offer letters, with each of our named executive officers providing for certain payments upon termination of their employment with us without cause and upon termination without cause following a change of control. These payments, and the definition for this purpose of change of control, are described in detail below under *Potential Severance Payments upon Termination and upon Termination Following a Change in Control*.

We believe that these agreements appropriately balance our needs to offer a competitive level of severance protection to our executives and to induce our executives to remain in our employ through the potentially disruptive conditions that may exist around the time of a change in control, while not unduly rewarding executives for a termination of their employment. We note that our change in control terms include so-called double trigger provisions, so that the executive is not entitled to the severance payment by the mere occurrence of the change in control. We believe this feature, will be an incentive to the executive to remain in the employ of the company if such continuation is required by our partner in a change in control transaction. We also believe that it is appropriate that our executives equity awards be treated, in the event of a change of control, like those of other employees and not accelerated if the executive s employment continues following the change in control event.

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Other Executive Benefits and Perquisites

We provide	the following benefits to our executive officers on the same basis as other eligible employees:
	health insurance;
	vacation, personal holidays and sick days;
	life insurance and supplemental life insurance;
	short-term and long-term disability; and
	a 401(k) plan.

We believe these benefits are generally consistent with those offered by other companies with which we compete for executive talent.

Some of the executives whom we have hired, including Mr. Melo, held positions in locations outside of Northern California at the time that they agreed to join us. We have agreed in these instances to pay relocation expenses to these executives, including costs associated with commuting from our facilities to their family s home outside of Northern California. The amounts paid in 2009 to named executive officers are included in the All Other Compensation column in the *Summary Compensation Table* below. Given the cost of living in the San Francisco Bay Area relative to most other metropolitan areas in the U.S., we believe that in order for us not to be limited to hiring executives located near our headquarters in Emeryville, California, that we must be willing to offer to pay an agreed upon amount of relocation costs.

Other Compensation Practices and Policies

Tax Considerations. Section 162(m) of the Internal Revenue Code disallows a tax deduction for any publicly held corporation for individual compensation exceeding \$1.0 million in any taxable year for our president and chief executive officer and each of the other named executive officers (other than our chief financial officer), unless compensation is performance based. As we are not currently publicly-traded, our board of directors has not previously taken the deductibility limit imposed by Section 162(m) into consideration in setting compensation. We expect that our compensation committee will adopt a policy at some point in the future that, where reasonably practicable, we will seek to qualify the variable compensation paid to our executive officers for an exemption from the deductibility limitations of Section 162(m). Until such policy is implemented, our Compensation Committee may, in its judgment, authorize compensation payments that do not consider the deductibility limit imposed by Section 162(m) when it believes that such payments are appropriate to attract and retain executive talent.

Policy regarding the timing of equity awards. As a privately-owned company, there has been no market for our common stock. Accordingly, in fiscal 2009, we had no program, plan or practice pertaining to the timing of stock option grants to executive officers coinciding with the release of material non-public information. We do not, as of yet, have any plans to implement such a program, plan or practice after becoming a public company. However, we intend to implement policies to ensure that equity awards are granted at fair market value on the date that the grant

action occurs.

Policy regarding restatements. We do not have a formal policy regarding adjustment or recovery of awards or payments if the relevant performance measures upon which they are based are restated or otherwise adjusted in a manner that would reduce the size of the award or payment. Under those circumstances, our Board of Directors or the Compensation Committee would evaluate whether adjustments or recoveries of awards were appropriate based upon the facts and circumstances surrounding the restatement.

Stock Ownership Policies. We have not established stock ownership or similar guidelines with regards to our executive officers. All of our executive officers currently have a direct or indirect, through their stock option holdings, equity interest in our company, and we believe that they regard the potential returns from these interests as a significant element of their potential compensation for services to us.

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Summary Compensation Table

The following table sets forth information regarding compensation earned by our chief executive officer, our chief financial officer and each of our three other most highly compensated executive officers during 2009. We refer to these executive officers as our named executive officers elsewhere in this prospectus:

Name and Principal Position	Year	Salary(\$)	Bonus(\$) ⁽¹⁾	Option Awards(\$) ⁽²⁾	All Other Compensation(\$)	Total(\$)
John Melo President and Chief Executive Officer	2009	408,333	200,000		\$ 221,617 ⁽³⁾	829,950
Joel Cherry, Ph.D. Senior Vice President, Research Programs and Operations	2009	310,000	74,683	709,737		1,094,420
Jeryl Hilleman	2009	300,000	149,365		18,833 ⁽⁴⁾	