REFINITIV STREETEVENTS

EDITED TRANSCRIPT

ATOM.OQ - Q3 2022 Atomera Inc Earnings Call

EVENT DATE/TIME: NOVEMBER 09, 2022 / 10:00PM GMT



CORPORATE PARTICIPANTS

Francis B. Laurencio *Atomera Incorporated - Chief Financial & Accounting Officer and Corporate Secretary* **Scott A. Bibaud** *Atomera Incorporated - President, CEO & Director*

CONFERENCE CALL PARTICIPANTS

Cody Grant Acree The Benchmark Company, LLC, Research Division - Senior Equity Analyst **Richard Cutts Shannon** Craig-Hallum Capital Group LLC, Research Division - Senior Research Analyst **Mike Bishop**

PRESENTATION

Mike Bishop

Hello, everyone, and welcome to Atomera's Third Quarter Fiscal Year 2022 Update Call. I'd like to remind everyone that this call and webinar are being recorded, and a replay will be available on Atomera's IR website for 1 year. I'm Mike Bishop with the company's Investor Relations.

As in prior quarters, we are using Zoom, and we will follow a similar format with participants in a listen-only mode. We will open with prepared remarks from Scott Bibaud, Atomera's President and CEO; and Frank Laurencio, Atomera's CFO. Then we will open the call to questions. If you are joining by telephone, you may follow a slide presentation to accompany our remarks on the Events and Presentations section of our Investor Relations page of our website.

Before we begin, I would like to remind everyone that during today's call, we will make forward-looking statements. These forward-looking statements, whether in prepared remarks or during the Q&A session, are subject to inherent risks, uncertainties. These risks and uncertainties are detailed in the Risk Factors section of our filings with the Securities and Exchange Commission, specifically on the company's annual report filed on Form 10-K filed with the SEC on February 15, 2022, and in our prospectus supplement filed with the SEC on May 31, 2022.

Except as otherwise required by federal securities laws, Atomera disclaims any obligation to update or make revisions to such forward-looking statements contained herein or elsewhere to reflect changes in expectations with regards to those events, conditions and circumstances. Also, please note that during this call, we will be discussing non-GAAP financial measures as defined by SEC Regulation G. Reconciliations of these non-GAAP financial measures to the most directly comparable GAAP measures are included in today's press release, which is posted on our website.

Now I would like to turn the call over to our President and CEO, Scott Bibaud. Go ahead, Scott.

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Good afternoon and welcome to Atomera's Third Quarter 2022 Update Call. Heading toward the end of the year, we continue to be impressed with the depth of the relationships and engagements with our customers and believe we are moving closer to commercialization each quarter. The process takes time, but we are seeing good traction. I will highlight some of our progress in the third quarter, then I'll turn the call over to Frank to go through our financials.

First, though, I'd like to address some industry trends and their impact on Atomera. Last quarter, I predicted the softening of demand in the semiconductor industry that's now playing out in earnings calls and analyst reports. Forecast reductions seem to be broad-based driven by lower demand and export control restrictions. Associated with that, we are seeing some reductions in projected capital expenditures, although I would emphasize that this is a reduction from the record levels previously forecast by many companies.



What does this mean for Atomera? Historically, in periods like this, we have seen an increase in development activity by our customers, resulting in additional wafer runs, and a growing interest from new customers as they seek competitive advantages coming out of the industry slowdown. This case does not appear to be an exception. We see strong and growing interest among our customers in introducing new specialty processes that can benefit from MST.

Capacity is available in their factories to get the work done and allocation of CapEx budgets, although somewhat reduced, is still plentiful to support the acquisition of new technologies and equipment. In short, this is the type of environment that provides a tailwind to adoption of Atomera technology.

As you can see from our customer pipeline, we continue to work with a wide range of customers, together representing at least 50% of the world's largest semiconductor makers. The solid progress we experienced in prior quarters has continued into the second half of this year. We maintain our focus on driving customers to adopt MST, in particular, those who are furthest along in their development.

The semiconductor industry is known to experience the domino effect, where once a significant industry participant adopts a new technology, other players respond as fast followers. We are encouraged by the activity among early adopters and are working with urgency to move them towards production.

On that note, I'd like to update you on some of our more important customer progress. In the past, we've spoken about 2 JDA customers. During the last quarter, the Atomera team has been collaborating closely with each of these customers to find MST solutions to real-world problems being experienced in their fabs. We've been making very strong progress. In each of their applications, I believe we are bringing new technical capabilities that were not possible to achieve prior to their use of MST.

Although we are restricted on what we can publicly disclose, let me assure you that we've been achieving the results that we have been hoping for since early this year and are now more assured that our solutions will progress through the development process board volume production. Likewise, we are actively working with each of our 4 other licensees to advance plans we hope will ultimately lead to further stage of licenses and then on to commercialization. For some, we are awaiting data that will help us prepare for the next steps. For others, we have the proof that is necessary to shift from demonstrating MST benefits to planning for production. As always, we will provide you with news on any significant milestones as they happen, subject to the confidentiality requirements of our customer engagements.

In particular, when agreements are executed, we will disclose them in real time, and several of these are in the pipeline. Unfortunately, this process can be frustratingly slow. But given the positive developments we've driven, I believe it's only a matter of time for MST to become widely adopted.

During this quarter, we continue to see strong interest and plans by more companies to adopt our 2 most mature and complete MST solutions or products, namely those around MST-SP and MST for RF-SOI. In both those areas, we now are convinced of 2 important things. One is that the solutions we are offering here are only possible through the use of MST. Secondly, we now understand the complex mechanisms driving these solutions even better than our customers, which gives us a unique ability to not only license our technology but to meet our mission, which is to collaborate with customers to achieve financial benefit for both companies.

MST technology is specifically designed to help customers shrink their die to put more product on each wafer, which leads to cost reductions and higher profitability. In times when capacity is tight, this may not be the first priority of semiconductor makers. But when they go into a slowdown like they are in now, this becomes absolutely critically important.

I think it's a fair question to ask why if these technologies and their associated economic benefit are so compelling, it takes so long to adopt. Of course, there are many answers to this question, but 2 stand out. Most companies have some kind of long-range product development roadmap. Perhaps they've been in production with technology A for 3 or more years, and it's time to work on an upgrade. Consequently, the engineering team focuses on technology A for a period. So technology B and C will have to wait their turn even if they have identified a real breakthrough.

Generally, after identifying the breakthrough, they immediately add that development plan to the next year's development efforts. So although they're committed, work does not begin for several months. This is no reflection on the interest or expected return. It's just an example of allocating



scarce resources. Once they do begin, the development project timeline can vary greatly depending on how full the fab is. For the last few years, throughput was extremely slow, but we expect it to accelerate now. So as I said earlier, it's only a matter of time. As an example, we introduced MST-SP to the market last year, and even though it generated a lot of interest, we are in more discussions about new customer engagements now than we were last year. And once new programs get started, I expect development to move faster than in the past.

In the press, you frequently read about developers of the most advanced nodes and how they're experiencing delays due to yield problems, which prevent manufacturability and high volume. This is one of the principal reasons why it's taking longer to bring new nodes to market, a phenomenon people call the slowing of Moore's Law.

Atomera's technology is particularly versatile for use in these most advanced architectures of next-generation transistors, which are called gate-all-around transistors. During the last quarter, we have seen evidence of this in successful experiments conducted on our tools. A fundamental challenge designers are trying to deal with at these ultra-small nodes is that their precise, highly doped structures are sitting only angstroms away from other precise highly doped structures, and they need to keep these boundaries in place through the whole manufacturing process.

But high-concentration dopants and nano transistor structures tend to diffuse when exposed to the heat required in subsequent manufacturing steps. And there are a few mechanisms to prevent that diffusion. The industry has reacted by trying to lower the temperature of its manufacturing process, but a certain amount of heat is still necessary so they need more techniques to solve the problem.

Atomera's MST is one of the best known material for preventing dopant diffusion. In a gate-all-around transistor, that means it can be used to prevent source or drained dopants from diffusing into the channel and thus preserve high electron mobility. It can also help prevent punch-through between source and drain and the silicon substrate. Even beyond dopant engineering, MST can be used to lower contact resistance at the silicon metal interface. It can reduce high-K metal gate stack height. And finally, it can improve carrier mobility and gate leakage by reducing high-K metal gate intermixing.

For a process development engineer, each of these MST benefits provides a distinct tool for getting gate-all-around technology into production faster and at a higher yield. An implementation of MST in the manufacturing process is straightforward because epitaxial deposition is already used extensively for the process steps adjacent to the MST layers when building gate-all-around structures.

Many of the ideas I've just spoken about have become apparent to our team's R&D efforts this year between progress with our customers, new emerging opportunities and the increasing expertise of the Atomera team in addressing critical industry issues. I believe our progress this past quarter is even greater than what we saw in the first half of the year. I wish you could experience the pace of customer and development activity inside Atomera. As I said before, this point in the industry cycle is ideal for our company, and we are doing everything in our power to take advantage. Our team is optimistic that these advances will soon lead to new customer growth. And even more importantly, licensing activity that will take more customers towards commercialization and will make Atomera a recognized semiconductor technology leader in the industry.

Now let's have Frank review our financials.

Francis B. Laurencio - Atomera Incorporated - Chief Financial & Accounting Officer and Corporate Secretary

Thank you, Scott. At the close of the market today, we issued a press release announcing our results for the third quarter of 2022. This slide here shows our summary financials.

Our GAAP net loss for the 3 months ended September 30, 2022, was \$4.6 million or \$0.20 per share, up slightly from our Q2 GAAP net loss of \$4.5 million, which was also \$0.20 per share. In Q3 of 2021, GAAP net loss was \$4.2 million or \$0.19 per share.

GAAP operating expenses in Q3 2022 were \$4.7 million, an increase of approximately \$210,000 over our \$4.4 million of operating expense in Q2. This increase was primarily due to an increase of approximately \$310,000 in R&D expenses, reflecting head count growth, offset partly by a \$100,000 decline in G&A expense as legal and other fees declined sequentially, while sales and marketing expenses were basically flat quarter-over-quarter.



As compared to our Q3 2021, GAAP operating expenses last quarter increased by \$521,000 primarily as a result of a \$510,000 increase in R&D expense due to increased engineering headcount, recruiting expenses and higher total lease costs due to a full quarter of lease expense in Q3 2022 compared to only a partial quarter in Q3 2021.

Non-GAAP net loss for the third quarter of 2022 was \$3.7 million compared to losses of \$3.6 million in Q2 and \$3.4 million in Q3 2021. The differences between GAAP and non-GAAP operating expenses, and accordingly, between GAAP and non-GAAP net loss are almost entirely due to noncash stock compensation expenses.

Our cash balance at September 30, 2022, was \$23.3 million compared to \$21.8 million at the end of Q2, which is an increase of \$1.5 million. Operating cash used during Q3 was \$3 million. And during the quarter, we brought in approximately \$4.6 million of cash from financing net of expenses and commissions, reflecting sales under our at-the-market, or ATM, equity program.

During the third quarter, we sold 386,415 shares at an average price per share of approximately \$12.34 under the ATM. As of September 30, 2022, we had 23.9 million shares outstanding.

Turning now to our outlook for the rest of this year and 2023. Never before has Atomera been engaged across such a diverse array of applications where our customers need innovative breakthroughs like MST. Obviously, we like these engagements to offer near-term revenue. And when additional customer wafer runs are required, licensing and go-to-market decisions get pushed out.

Accordingly, our guide for revenue in Q4 is 0. And we're not providing revenue guidance beyond the current quarter, which is consistent with our past practice.

Our last update call in July, I reduced our full year guidance for non-GAAP operating expenses to a range of \$14.75 million to \$15.25 million. For the 9 months -- the first 9 months of this year, our non-GAAP expenses totaled \$10.6 million. And because we have good visibility through the end of the year, I expect our full year operating expense on a non-GAAP basis will be at or slightly below the bottom end of that guidance range. On our next earnings call, I'll provide more specific color on our planned 2023 spending.

With that, I'll turn the call back over to Scott for a few summary remarks before we open the call up to questions. Scott?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Thanks, Frank. As expected, the strong momentum we built in the first half of this year has given us a solid platform to build on for the accomplishments of the second half, and we are taking full advantage. Customer visits and associated progress and development are accelerating. And with the dip in semiconductor backlog, companies have the capacity and inclination to implement new solutions like MST to add capacity, cut product costs and achieve competitive advantage.

Atomera is perfectly positioned in this environment with a variety of tools to meet their needs. We continue to believe that this combination of our technical capabilities in the context of this market provide an ideal environment to add to our license portfolio and to move forward to commercialization, and we look forward to sharing news of those efforts with you in the future.

Mike, we will now take questions.

QUESTIONS AND ANSWERS

Operator

Thank you, Scott. (Operator Instructions) All right. And now our first question comes from Richard Shannon of Craig-Hallum.



Richard Cutts Shannon - Craig-Hallum Capital Group LLC, Research Division - Senior Research Analyst

Thanks, Mike, and thanks, Scott and Frank, for having me. I apologize in advance here for trying to listen to 2 calls at once here. So you may have touched on some of these topics here. But maybe just touching on your first JDA customer. I think you've talked about being in central engineering and working with one business unit. Have you expanded that beyond the first business units? Or -- and if not, any visibility or work being done to expand that relationship?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. Thanks for the question, Richard. So we aren't really talking about expanding into different business units. But what I can say -- when we get to kind of a license agreement, we'll be able to say we've definitively expanded with the business unit, that's when we'll be able to disclose it. But I can say -- and in my prepared remarks, I made a few comments about the work that we're doing with JDA customer 1 and the breakthroughs that we've kind of achieved on our R&D team here. So obviously, we are continuing to work very closely with them and continuing to -- development work that we believe positions us well to get to that type of agreement in the future.

Richard Cutts Shannon - Craig-Hallum Capital Group LLC, Research Division - Senior Research Analyst

Okay. Fair enough then. Scott, I think you had some comments -- and again, I probably missed all or missed some of them. But it sounds like you're fairly excited about the environment here that allows a little bit less utilization and offers more opportunity to run more R&D wafers. To what degree are you seeing that? I mean, do you get a full view on what utilization customers have and to what degree they're prioritizing work with you versus other avenues they may have for those -- the small number of R&D wafers they run?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. I mean we definitely -- with the customers that we have that are running wafers, if they're planning to do additional wafers, they -- it's been no problem whatsoever to get new runs planned and started. For our newer customers, one of the challenges that we've had in the past is a customer that was interested in working with us may say, "Hey, we think your technology has a lot of promise, but I can't get any wafers through the fab." And we've seen that concern go away.

So now we have a lot of new customers that we're talking about, and we think we'll be able to engage with them quickly. And then finally, sometimes even when we had wafers running in fabs with folks in the past couple of years, it's taken a very long time to progress through just because they're fully utilized for revenue-bearing wafers. And so we're starting to see that loosen up as well.

Although I would say, when analysts like yourself are talking about the slowdown in semiconductors, it's about bookings, right, and it's about things that are going to happen in the future. The slowdown in practice has not entirely hit the factories yet. So -- but people can see it coming.

Richard Cutts Shannon - Craig-Hallum Capital Group LLC, Research Division - Senior Research Analyst

Okay. Okay. Fair enough then. I think on the topic of leading edge, which had some nice comments, I think I heard most of them there. I guess a couple of questions there. Obviously, there's a lot of work that needs to be done here both on year-end as well as industry work here. To what degree of confidence do you have of not only getting licensees for the kind of gate-all-around technology, but also intersecting with the introduction of those technologies to the market versus some updates they may have down the road? How do you think about that?



Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. It's always a challenge trying to get on the train at the right point so that you can be there when it leaves the station. But I've talked about this on other technologies before. Everything that we're talking about are additive technologies that will help the gate-all-around processes and even if they move to the process beyond that. It makes it easier for them to manufacture and get higher performance out of those wafers.

So even if they don't use it on the first round, they may use it on a follow-on version of it to get higher yield or to better performance. If you look at TSMC's 5-nanometer product portfolio, you can see that they had a whole bunch of variations of [5], right, the first version, the second version, the third version. And we believe that we can definitely -- if we don't intersect with the first, we definitely believe we'll be able to intersect with the later ones.

And now there's only 3 players that are developing this type of technology. But the techniques that we've developed for gate-all-around are also very applicable to some of the more advanced work that's being done by memory players as well. And so we're very optimistic about it.

Richard Cutts Shannon - Craig-Hallum Capital Group LLC, Research Division - Senior Research Analyst

Okay. Great perspective there, Scott. Maybe a couple of quick questions for Frank. I -- if I missed this, my apologies, but did you update the CapEx spend rate for this year? Do you change it? And would you have us think about a different rate for next year? It sounds like there's a little bit hiring plans or other work that might lead us to think there's something of an increase next year. And just kind of qualitatively, can you help us think about that?

Francis B. Laurencio - Atomera Incorporated - Chief Financial & Accounting Officer and Corporate Secretary

Yes. No, I'm happy to do that, Richard. So in terms of -- for the rest of the year, I had given a band of \$14.75 million to \$15.25 million. And given that we ended Q3 under -- was it -- yes, \$10.6 million through the first 3 quarters of the year, I'd expect that we'd come in kind of right around the bottom of that range, so the bottom end being \$14.75 million. I think we'll be at or below that.

Directionally, we're in the middle of our planning process for next year. I wouldn't expect there to be big step functions. But if you look back sort of for the last 4, 5 quarters and looked at sort of the sequential growth rate, I don't expect that we would grow spending less than that. But I'm not prepared to kind of give any specific guidance for next year. But I think if you look at sort of the trends quarter-on-quarter that we've seen throughout this year and carry that into next year, that's a reasonable place to think about where we'll be.

Richard Cutts Shannon - Craig-Hallum Capital Group LLC, Research Division - Senior Research Analyst

Okay. That's helpful, Frank. And last question for me. On the comments you had on the ATM, I caught the price per share average that you had there, but I missed the number of shares that you took down there.

Francis B. Laurencio - Atomera Incorporated - Chief Financial & Accounting Officer and Corporate Secretary

Yes. So the number of shares we sold last quarter was 386,415, and that's in our 10-Q also.

Mike Bishop

Thanks, Richard. And our next question comes from Cody Acree of Benchmark.



Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

Maybe Scott, if I can start off with your Chinese exposure. To what extent are you exposed to the China market and those partners that may or may not be having any of the economic malaise that we're seeing around the rest of the industry?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. So thanks for the question, Cody. First, we have been -- for years, we were hesitant to get involved in China too heavily because we just have IP concerns. Later on, we started to get engaged with China a little bit more, but we -- but then we backed off during the Trump administration because of some signals that we were seeing coming out of Washington.

So right now, we don't really have any significant exposure to China. I think if this trade war ever turns around, then we would probably go in and be looking for opportunities there. But right now, I wouldn't say it impacts us whatsoever.

As a matter of fact, I would say that the fact that there's a lot of folks trying to move process technologies into their own kind of domestic country fabs gives us an opportunity to help those fabs differentiate by bringing our technology in as they're adopting.

Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

But you're not currently working with any partners in China specifically?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

That's right.

Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

Okay. Okay. If I can just get you to talk a bit about the macro again. Just the difference in the customer attitude as the belts are being tightened across the industry, I definitely see where the facilities being lesser used could be an opportunity to move you in. But at some point, that pendulum goes so far that then it's a customer attitude of restraints and tightening. You've been through some of these cycles before where that could be a point for you at some point in the future.

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. That's a good question. First of all, we're very early in that pendulum swing, as you know. So right now, we're really in the sweet spot. It's where people -- one of the things that's interesting is this past few years, the capacity has been so thin that development activity inside a lot of these companies was slowed down. They were really focused mostly on how to improve the yield to get more wafers through a fixed capacity fab, right?

So now they have all this pent-up R&D that they're ready to do. And I don't believe that we've seen a situation so far in our company's life where the pendulum has swung so far to the cost-savings side that they aren't doing development work. We -- I think it doesn't get -- it doesn't -- I don't think it happens. Once people get to the point where they say, "Hey, we really need to save money," they start looking at what can we do on our product costs or something to lower our cost so we can drive more profitability through the limited manufacturing capacity that we have. And that's a sweet spot for us. So I really think if this slowdown lasts for a while, it's going to be great for us and really think it puts us in a great position.



Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

And your comments around MST's application to gate-all-around is very encouraging. But like you said, there's a limited number of players that are developing that, and it's still very much in the development process. So I guess, are you having active discussions toward your implementation? Or is that more of a -- or was that more of a commentary of thought on your part that we should be applicable here and makes sense logically, but we're not seeing it yet, more partners?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. What I'd say, Cody, is we definitely are in contact with the players that are doing this type of work. They know about our technology, and we have different levels of engagement -- direct engagement with different guys there. But certainly, that's something that we are constantly kind of promoting and something that we want to get more deeply involved with each of them on.

I really believe that in the most bleeding edge, that's probably where you also see the most NIH in companies, all the best engineers that -- at the foundries want to work on this. And they may be somewhat hesitant to seek outside help, like what we can bring. But there's no denying -- I mean the comments I made on the call, there are at least 5 or maybe 6 different benefits we can bring. And each one of them is separate. It's not like -- I mean you could choose just to implement 1 or you could implement all 6.

And they're not very hard to implement because -- like, let's say, we are putting our technology in an older process node. We need to convince people to add epi and run epi on their -- in their production line. It's not hard to do, but it's just a new piece of equipment. But on the most advanced nodes, they're using epi everywhere. And all they would have to do is add in some extra steps to put in MST after the prior piece of epi that they were doing.

So I think we're very optimistic about this. If we get in at the bleeding edge, of course, it will probably be included in all future nodes that are developed as well.

Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

And let's see, lastly, I guess, just, Scott, your discussions on 2023 budgets for your customers. You've obviously been having those. You're getting some thoughts on their broader CapEx plans. And I would just like to hear your thoughts on your customers' attitude towards spending next year. And are those -- is that in sync with your encouraging thoughts?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Right. Yes. So absolutely. Six months ago, I think in my Q1 earnings call, I was talking about, basically, every one of our customers making record forecast for what they were going to do for CapEx, spend more than they've ever spent in there in the company's history. And -- now some of them have scaled back those forecasts. But you got to imagine, that still means they're spending far more than they had planned to spend 2 years ago.

So yes, I think -- I'm very optimistic. I think they have plenty of money. I mean there -- a lot of the guys are talking about their R&D budgets are in the billions of dollars. Working with us is few millions of dollars is peanuts. And so this -- I don't anticipate that we're going to see problems with cutbacks from customers because of cost concerns, at least in the next year to 18 months.

Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

Okay. Great. And then, I'm sorry, one last thing. I just wanted to talk about your visibility. And I know that your standard has been to guide towards 0 in lack of certain deliverables. But we've been sitting here at 0 for the last few quarters as far as The Street estimates go. And I guess I'm wondering, is there a point on your horizon that you could start to think about getting more positive? Are there milestones or hurdles that you believe are coming that you might see a guarter in 2023 where you can actually predict revenue? Or are we looking at this situation for the foreseeable term?



Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

No. Actually, I share your frustration on that question, Cody. We -- the challenge -- and I've always said this in Phase 3, where we're doing kind of integration licenses, they're very hard to predict. Once a customer gets a manufacturing license, then we get a little more visibility into what they're doing. And we do have what we believe are a number of customers in the portfolio who are -- who could do a manufacturing license soon.

We're always hesitant to say exactly when that will happen because maybe they do a wafer around that takes 9 months, and we hope it happens right after that, but they might be another wafer around that will take 9 months more. So -- but I can say we have several in our portfolio that we hope to get there.

Once they get through the manufacturing license, and then we could get them into Phase 5 distribution license. At that point, we can almost start to make real revenue forecast not only for license payments like upfront license fees, but also for royalty payments down the road. So I'm hopeful we get there soon. Definitely, I am tired of 0 revenue forecast, and we'd love to give you more than that.

Cody Grant Acree - The Benchmark Company, LLC, Research Division - Senior Equity Analyst

Sure, sure. And Frank, one last thing for you. Your ATM program, is there a range of valuation estimates that you have your come on that -- where you believe that it's just so cheap? You've got to be buying more aggressively and the upper end of the range where you might buy less?

Francis B. Laurencio - Atomera Incorporated - Chief Financial & Accounting Officer and Corporate Secretary

I think it's the opposite, right? I mean because this -- it's -- that would be sort of a stock buyback. I mean you're thinking more in terms of the range of where we would sell in the ATM. And no, we don't stick to sort of ranges like that. I think the average execution price last quarter shows that we're pretty judicious about using the program.

But frankly, we balance 2 things, right? One is maintaining sufficient cash on our balance sheet to cover our anticipated needs. And then the second one is trying to execute at the best price to be as — to have as little dilution as possible. I think we've proven in using ATM instruments that we've executed well to those metrics.

But I can't look forward and say that there are sort of absolute ranges because it's just going to depend on part of it within our control, how are we executing, what are we delivering, what are our capital means. But the one that I can't control is what's the broader equity market doing. Because I do think that without addressing our own stock price -- I mean overall equities have been hurt pretty badly in the last year. So we're not immune to that, and we don't have a crystal ball as to when that will change. So there's no hard and fast formula for that.

Mike Bishop

Thank you, Cody. And some questions coming here on the Q&A chat. One of them -- there's a couple of questions, Scott, on the wafer runs that we've talked about before. And so the question is, can you give some more color on the wafer runs that you've announced or discussed on prior conference calls?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. I think on prior conference calls, what we said was that we had a number of different wafer runs underway. We have gotten some preliminary results that looked very promising. Some of those wafer runs have made to the end, and unfortunately, some of them haven't yet.



So what I can tell you is that we've seen data come out of those runs that we were hoping to see at the beginning of this year. And we -- then there were some -- there are some technical challenges with one of the runs that have nothing to do with our technology but may delay the results further.

So I don't want to say what type of decisions the customers have made based on those, but I can -- I'll just say we're continuing to work with them, and we hope that what we're doing will lead us to a next generation -- I mean a next step, which would be license agreements in the near future.

Mike Bishop

Okay. And I know we touched on it a little bit in the prepared comments, but there's a couple of questions about updating on the status of the JDA. So maybe address what things are needed for your JDAs to make it to production.

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Okay. I did make some comments about our JDAs. I think on JDA #1, as we've spoken about in the past, the -- so we had been working with the central engineering organization, and we continue to work with that customer -- various groups who've asked us to look at some other technologies that they really need help solving, and we've been working on that jointly with them.

I mentioned in my prepared remarks that we've seen really compelling results there. And -- but we -- and we're talking multiple business units. But we haven't gotten to the point where a business unit has signed up and said, "Okay, we're going to take a license and start moving forward." That's something I can announce, and that's the point where I can give you -- I mean I'll give you at least as much color as I can there. But right now, we're not quite at that point, so I can't say much more about it.

The other JDA customer we have, we're working directly with a business unit. It falls in the category of one of those guys who had wafers in the fab, but we don't quite have results yet, so I can't really give you much update there either. But still working very closely with them, and we hope to kind of get to the point where we can push into the license stage soon.

Mike Bishop

Okay. And so there's a question of -- about the intellectual property. And the question is, how does your IP portfolio create a moat around the -- where the semiconductor industry is moving?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. This is -- that's actually a really good question. So our IP portfolio is composed of -- we have more than 300 patents granted and pending, and they cover -- I like to think of it as a cloud. If you look inside each patent, there are dozens and dozens of claims in there. And each claim is something that protects us.

And so what we try to do, whenever possible, is we try to take fundamental MST capability and we try to build patents around applications, how people would use that in certain areas. So for example, today, I talked a little bit about gate-all-around technology, and we may have some patents that cover MST and gate-all-around technology.

Now for somebody who would like to use MST, we have such a cloud of coverage around that technology that they would be crazy to try to figure out how to work around the cloud or find a hole in it because there's just too many intersecting kind of lines that they would have to try to get around. And so we believe we have very good coverage not only for our core technology, but also for a lot of the most likely future uses of it with ongoing patent applications that are application-specific.



Mike Bishop

Okay. And final question here, what has Atomera done in the memory sector?

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

Yes. So most of our work in the memory sector has been R&D work internally here that is targeted towards needs that we know the memory market has. And the reason why we know what they are is because we're working with memory makers, and we're consulting with them and we're trying to find ways that our technology can solve some of their problems.

I think one of the areas that we're particularly excited about and have been for a little while is in DRAM and our ability to use MST to make smaller sense amps, which are -- which make up about half the size of an overall memory chip today. So if we could really help them shrink those, that could save enormous amounts of power and area, and it would be very valuable.

In order to engage with memory companies on those things, though, we need to do a lot of R&D work to get the actual data to prove our claims. So there's 3 pieces we need in almost any engagement with the customer. We need to have a theory about why it would work. We need to have some modeling, so [Tcad] modeling software to show people exactly how it would be implemented and how it would work. And then finally, ideally, we'll have some measured silicon results that show the benefits that we're promising to customers.

And if we can do those 3 things, we have a very strong chance of engaging with them and trying to move forward. So that's one of the key areas -- things that we have going on in the memory market. We have a number of other ideas that we're working on at a little bit more in the background, but -- so that's what's going on.

Mike Bishop

Okay. Thanks, Scott, and we'll turn it back to you for closing comments.

Scott A. Bibaud - Atomera Incorporated - President, CEO & Director

All right. Well, I just want to thank everyone for attending today's presentation. I'm very pleased to share with you our recent strong progress and to give you a sense of the optimism we're experiencing inside Atomera. Please continue to look for our news, articles and blog posts to keep you up to date on our progress, which are available along with investor alerts on our website atomera.com.

We look forward to seeing some of you during our scheduled marketing activities, including the Benchmark Discovery Conference. Should you have additional questions, please contact Mike Bishop, who will be happy to follow up. Thank you again for your support, and we look forward to our next update call.

Mike Bishop

Thank you, everyone. This concludes the Atomera Third Quarter '22 Conference Call.



DISCLAIMER

Refinitiv reserves the right to make changes to documents, content, or other information on this web site without obligation to notify any person of such changes.

In the conference calls upon which Event Transcripts are based, companies may make projections or other forward-looking statements regarding a variety of items. Such forward-looking statements are based upon current expectations and involve risks and uncertainties. Actual results may differ materially from those stated in any forward-looking statement based on a number of important factors and risks, which are more specifically identified in the companies' most recent SEC filings. Although the companies may indicate and believe that the assumptions underlying the forward-looking statements are reasonable, any of the assumptions could prove inaccurate or incorrect and, therefore, there can be no assurance that the results contemplated in the forward-looking statements will be realized.

THE INFORMATION CONTAINED IN EVENT TRANSCRIPTS IS A TEXTUAL REPRESENTATION OF THE APPLICABLE COMPANY'S CONFERENCE CALL AND WHILE EFFORTS ARE MADE TO PROVIDE AN ACCURATE TRANSCRIPTION, THERE MAY BE MATERIAL ERRORS, OMISSIONS, OR INACCURACIES IN THE REPORTING OF THE SUBSTANCE OF THE CONFERENCE CALLS. IN NO WAY DOES REFINITIV OR THE APPLICABLE COMPANY ASSUME ANY RESPONSIBILITY FOR ANY INVESTMENT OR OTHER DECISIONS MADE BASED UPON THE INFORMATION PROVIDED ON THIS WEB SITE OR IN ANY EVENT TRANSCRIPT. USERS ARE ADVISED TO REVIEW THE APPLICABLE COMPANY'S CONFERENCE CALL ITSELF AND THE APPLICABLE COMPANY'S SEP CILINGS BEFORE MAKING ANY INVESTMENT OR OTHER DECISIONS.

©2022, Refinitiv. All Rights Reserved.

